AUDIO-VIDEO SURROUND RECEIVER

KR-X1000/(G)

SERVICE MANUAL

KENWOOD

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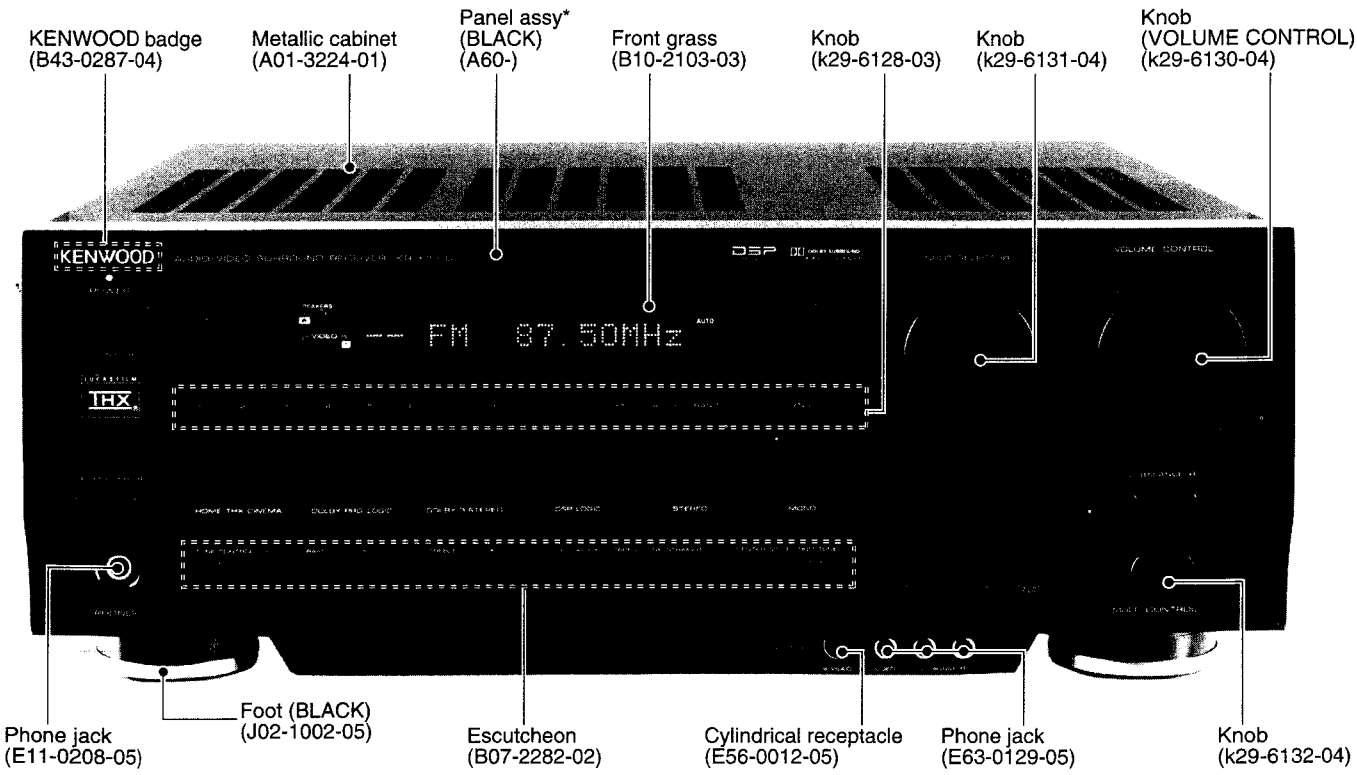
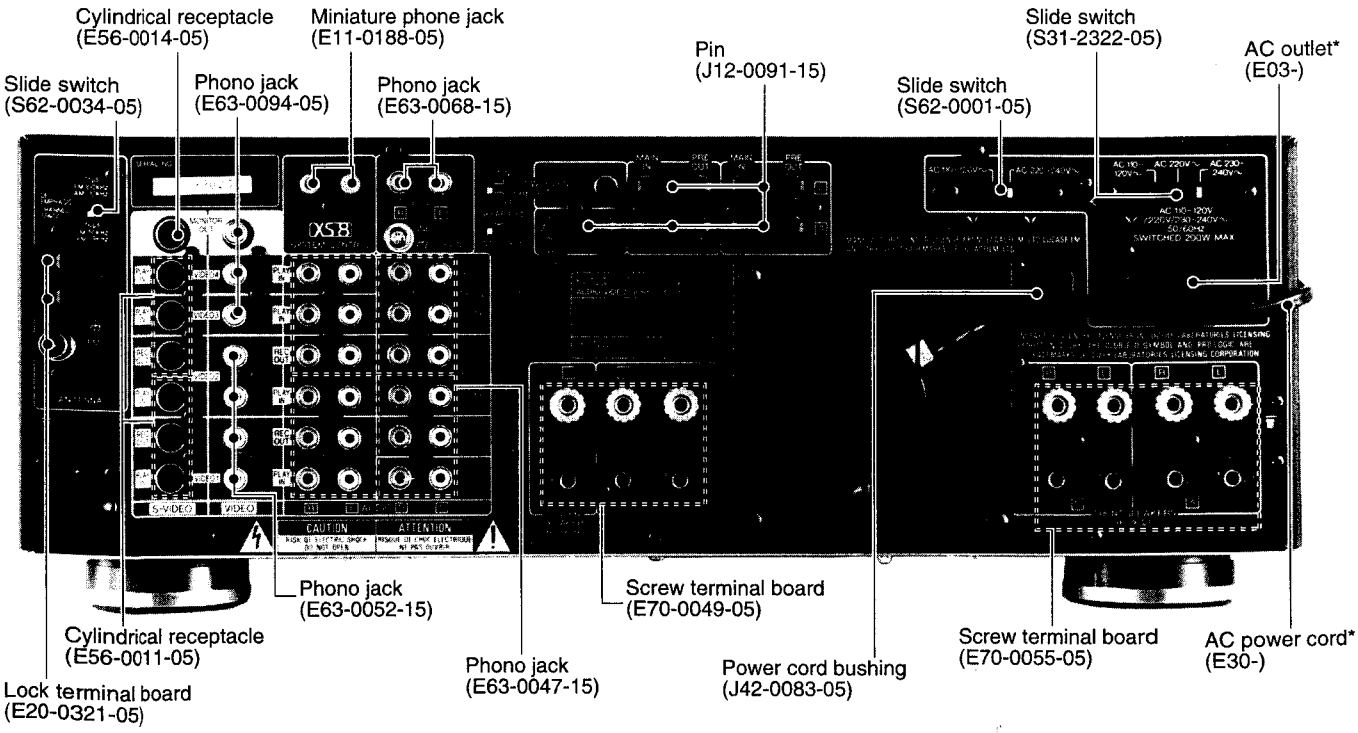
B51-5070-00 (K) 2627

KR-X1000 M type





*Refer to parts list on page 71.

KR-X1000/(G)

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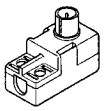
SPECIFICATIONS .....Back cover

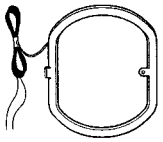
ACCESSORIES

FM indoor antenna.....(1)
(T90-0801-05)

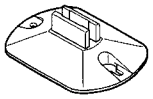
antenna adaptor.....(1)
(T90-0198-05)



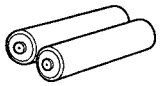
AM loop antenna assy ..(1)
(T90-0195-05)



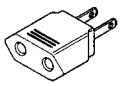
loop antenna stand (1)
(J19-3645-05)



Batteries(R6/AA).....(2)

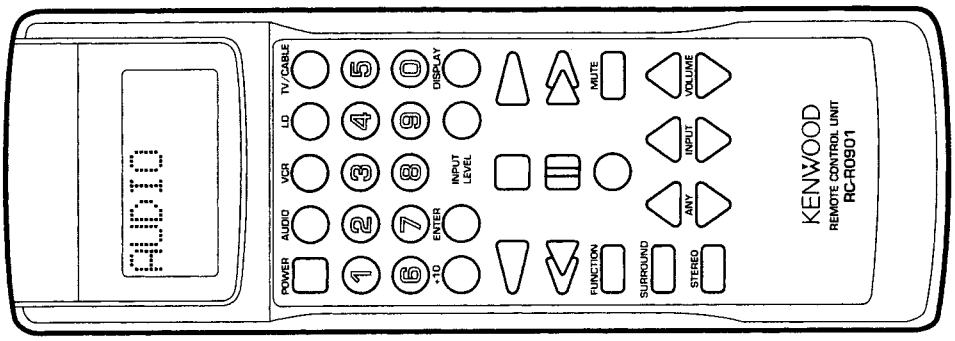


AC plug adaptor.....(1)
(E03-0115-05):M



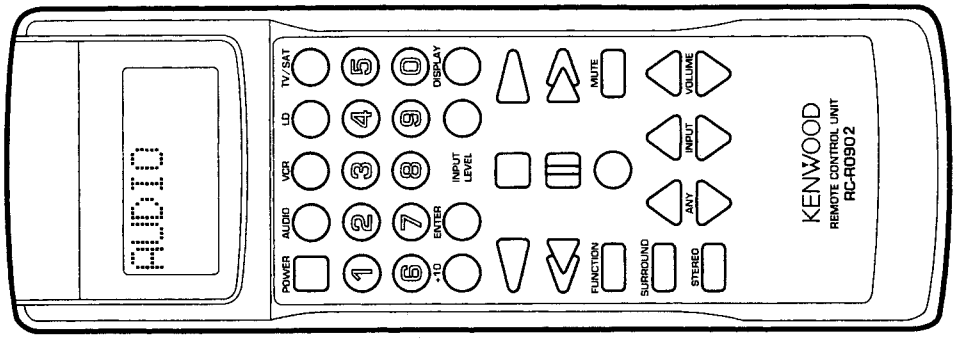
Remote control unit.....(1)
(A70-1019-05):RC-R0901(K,P,Y,M,X type)

BATTERY COVER(A09-0193-08)



Remote control unit.....(1)
(A70-1027-05):RC-R0902(T,E.G type)

BATTERY COVER(A09-0193-08)

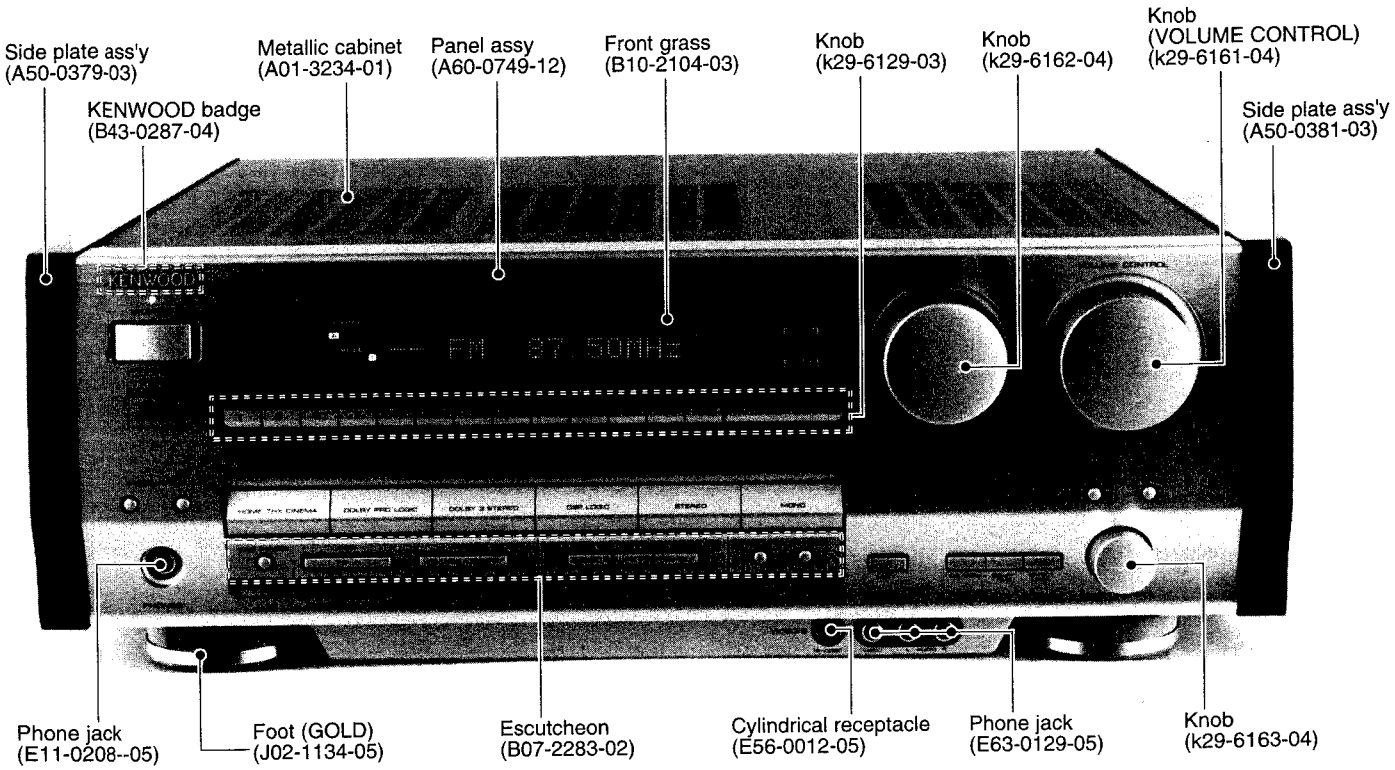


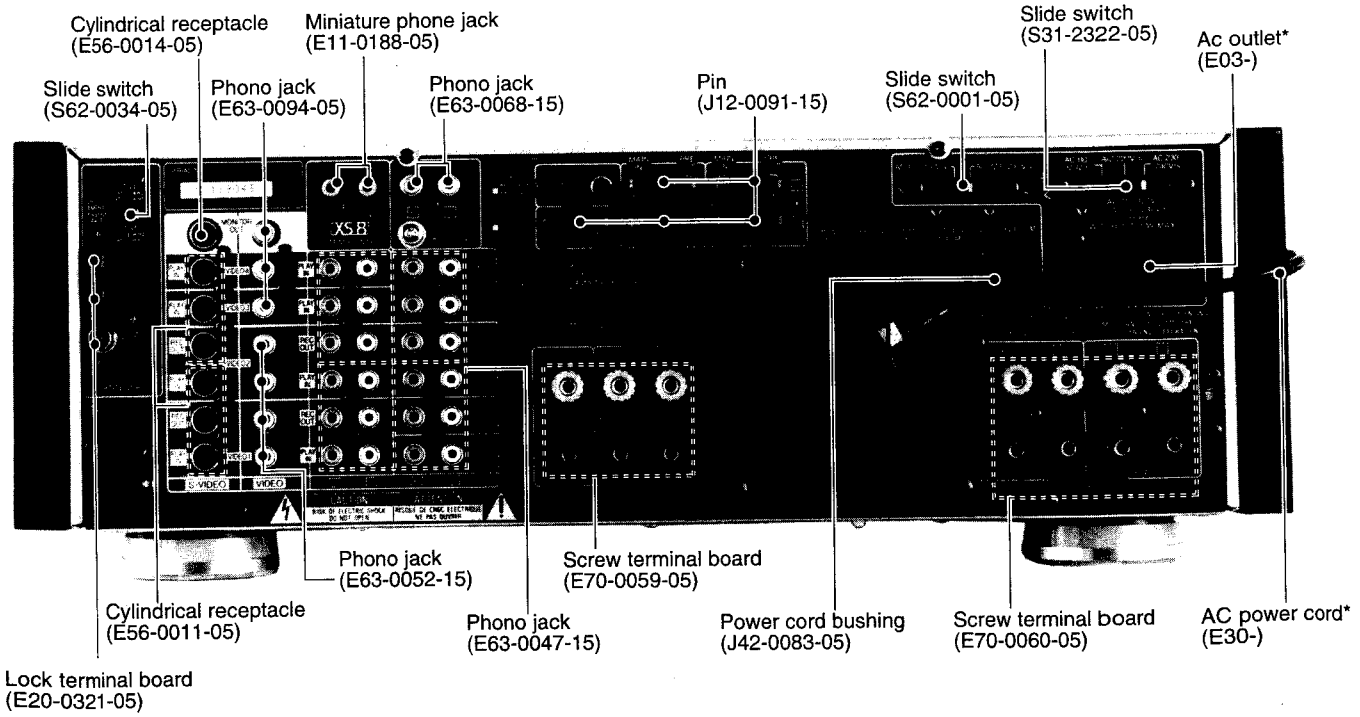
INSTRUCTION MANUAL

	Parts No.	Destination
ENGLISH	B60-2100-00	KS,PS,YS,MS,XS
ENGLISH	B60-2101-00	TS
FRENCH	B60-2102-00	PS
SPANISH,CHINESE	B60-2103-00	MS

	Parts No.	Destination
GERMAN	B60-2104-00	MS,ES
FRENCH,DUTCH	B60-2232-00	ES
ITALIAN,SPANISH	B60-2233-00	ES
TAIWAN	B60-2234-00	MS

KR-X1000(G) M type





KR-X1000/(G)

DISASSEMBLY FOR REPAIR

[Removed the PCBs]

1. Remove the fourteen screws (❶),then remove the bottom plate.

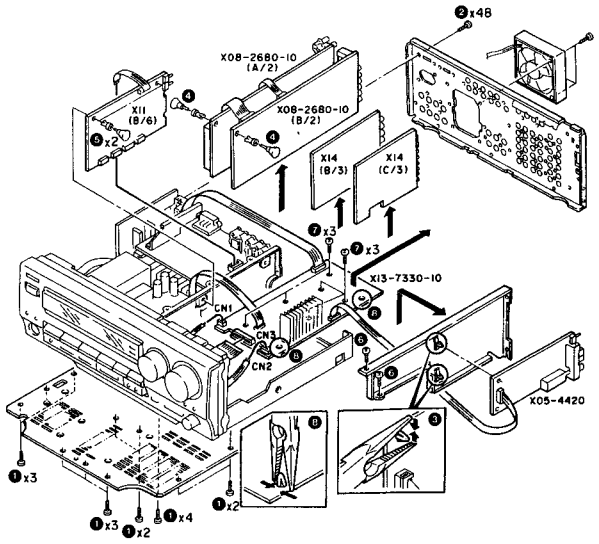
2. Remove the forty eight screws(❷),then remove the fan motor,the rear panel, and PCB(X14).

3. Push the two PC holders (❸),then remove the PCB(X05),

4. Remove the four push rivets(❹,❺),then remove the PCB (X08,X11).

5. Remove the two screws(❻),then remove shield plate.

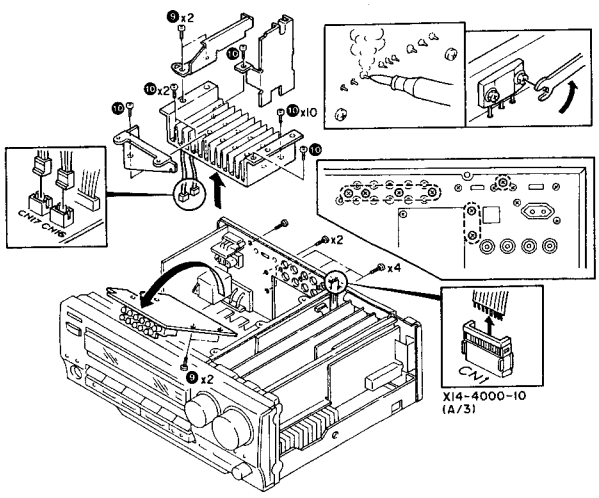
6. Remove the six screws(❼) and push the two PC holders (❽),then remove the PCB(X13).



[Removed the main heat sink]

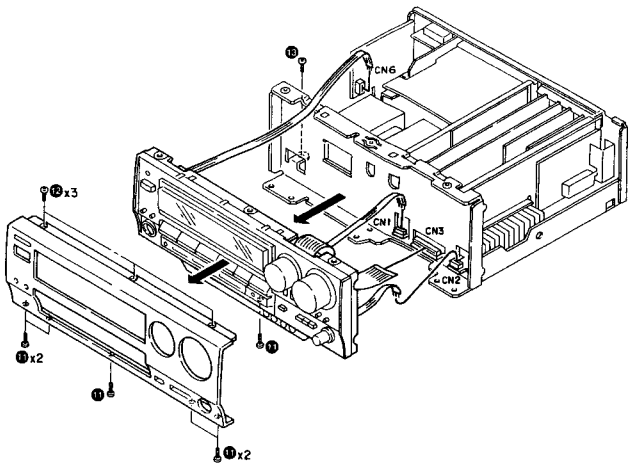
1. Remove the eleven screws(❾),then remove the PCB(X14).

2. Remove the fifteen screws(❿),then remove the main heat sink.



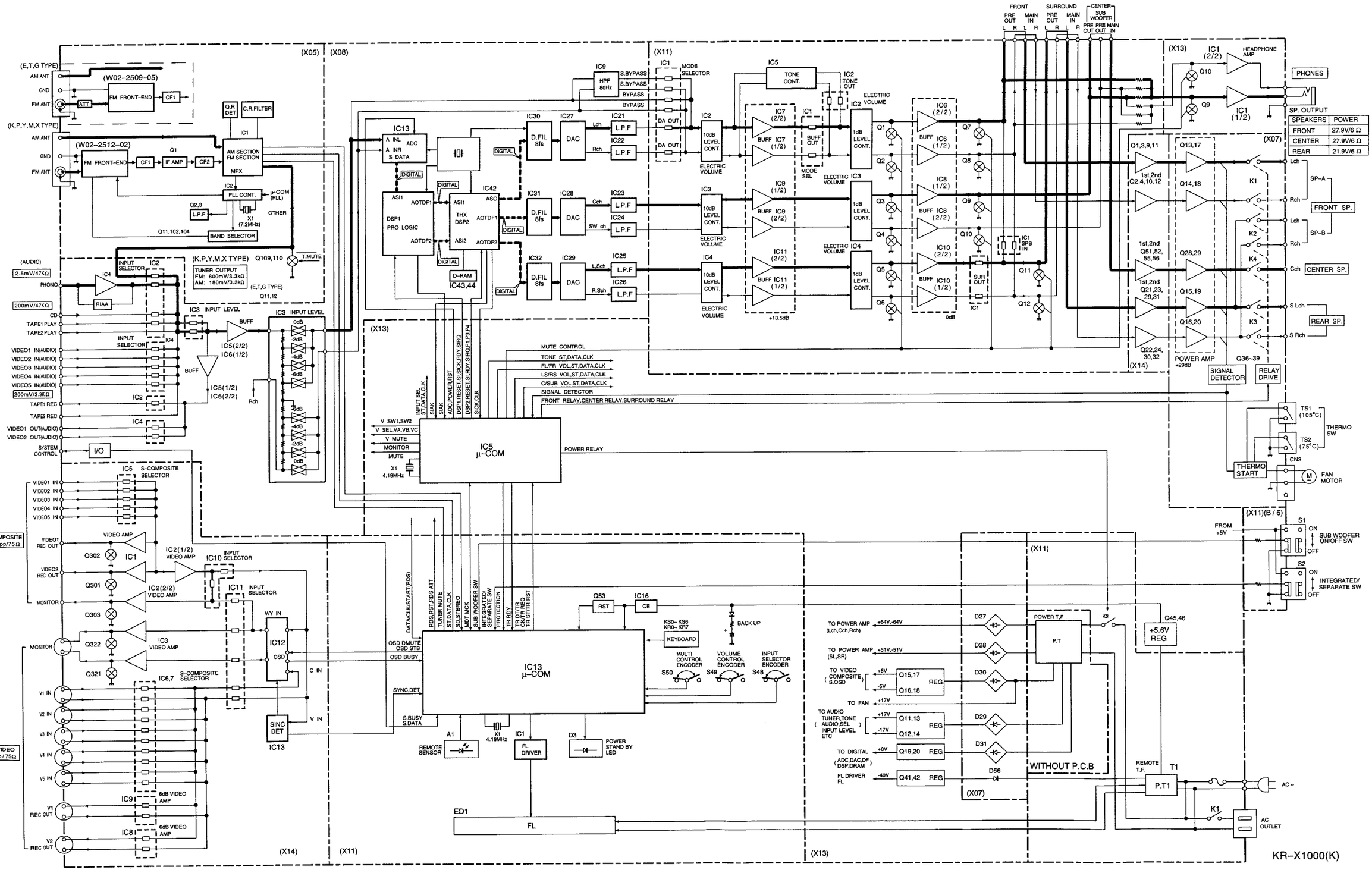
[Removed the front panel]

Remove the ten screws (⓫ ,⓬ ,⓭), then remove the front panel and the sub panel.



KR-X1000/(G)　KR-X1000/(G)

BLOCK DIAGRAM



KR-X1000(K)

KR-X1000/(G)

CIRCUIT DESCRIPTION

1. Main microprocessor:

UPD78056GC-075(X11: IC13)

1.1 Function description

1.1.1 Feature

(1) AMP

(a) Audio input :10channels
CD,PHONO,AUX,TAPE1,TAPE2,VIDEO1,
VIDEO2,VIDEO3,VIDEO4,VIDEO5
Audio input :4channels
TAPE1,TAPE2,VIDEO1,VIDEO2
Video input :5channels
VIDEO1,VIDEO2,VIDEO3,VIDEO4,VIDEO5
Video output :3channels
VIDEO1,VIDEO2,MONITOR

(b) POWER ON/OFF
SPEAKER A ON/OFF
SPEAKER B ON/OFF
LINE STRAIGHT ON/OFF
VISUAL FIX ON/OFF
TAPE2 ON/OFF
MUTE ON/OFF
DIMMER (Remote control)
MENU (Remote control)

(c) VOLUME UP/DOWN
BALANCE L/R

(d) TONE CONTROL ON/OFF
BASS UP/DOWN
TREBLE UP/DOWN

(e)DISPLAY(FL) (remote control)
2MODE(INPUT SELECTOR.SURROUND)

(2) SURROUND

(a) HOME THX CINEMA
DOLBY PROLOGIC
DOLBY 3 STEREO
DSP LOGIC
MONO
STEREO (SURROUND BYPASS)

(b) CENTER MODE
HOME THX CINEMA:3MODE
(NORMAL · WIDEBAND · PHANTOM)
PROLOGIC:3MODE
(NORMAL · WIDEBAND · PHANTOM)
3 STEREO:2MODE(NORMAL. WIDEBAND)
DSP LOGIC:3MODE
(NORMAL · WIDEBAND · PHANTOM)

(c) DELAY TIME
EFFECT LEVEL 3MODE (ROOM. EFFECT.WALL)
INPUT LEVEL
CHANNEL MODE
MULTI CHANNEL CONTROL
TEST TONE ON/OFF

(3) TUNER

(a) BAND(FM.AM)
AUTO/MANUAL
TUNING UP/DOWN
TEN KEY
+10KEY
MEMORY (40ch RANDOM PRESET)
DIRECT
P.CALL (REMOTE CONTROL)

(4) RDS

(a) PTY
AF

(b) DISPLAY(RDS MODE)
2 MODE(PS.CT)

1.1.2 Control object

(1) SELECTOR IC
AUDIO : TC9I62N TC9I63N TCS164N
MODE : IC9162N TC9163N
VIDEO : TC4051BPX3 TC4053 NJM2279

(2) VOLUME IC
MASTER : TC9213P
CENTER.SUB WOOFER : TC9213P
REAR : TC9213P

(3) TONE CONTROL IC : TC9184P

(4) DSP IC
DSPI : LC83016E
DSP2 : LC83017JE

(5) OSD IC
OSD : PD6452GT-603
(SYNC. SEP. : MM1067XD)

(6) FL DRIVER IC : LC7511E

(7) PLL IC : LC7218

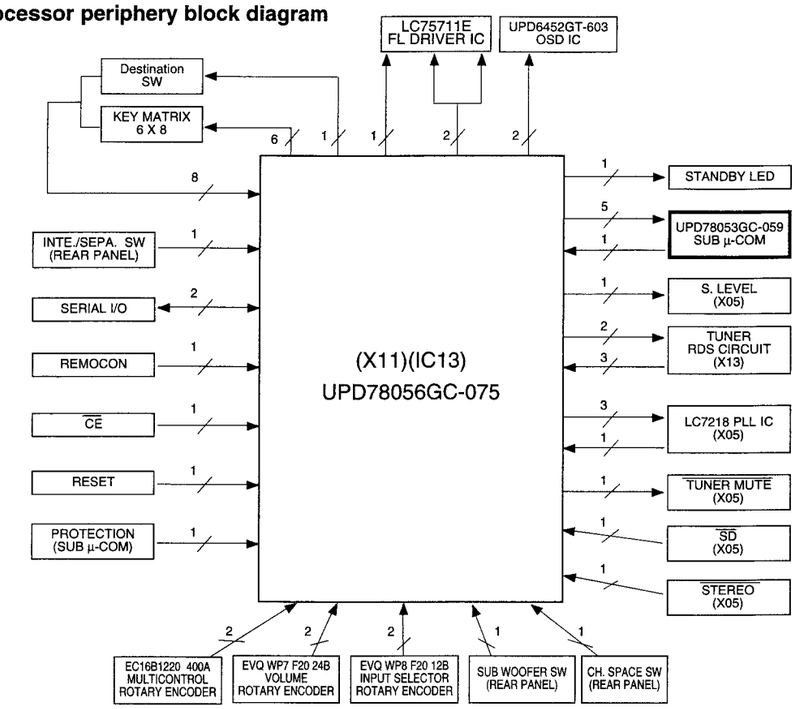
(8) RDS ATT CIRCUIT (RDS IC : LC6543H-4D68)

(9) FL TUBE (l6Grid/35Segment) : FIP15XM1AA

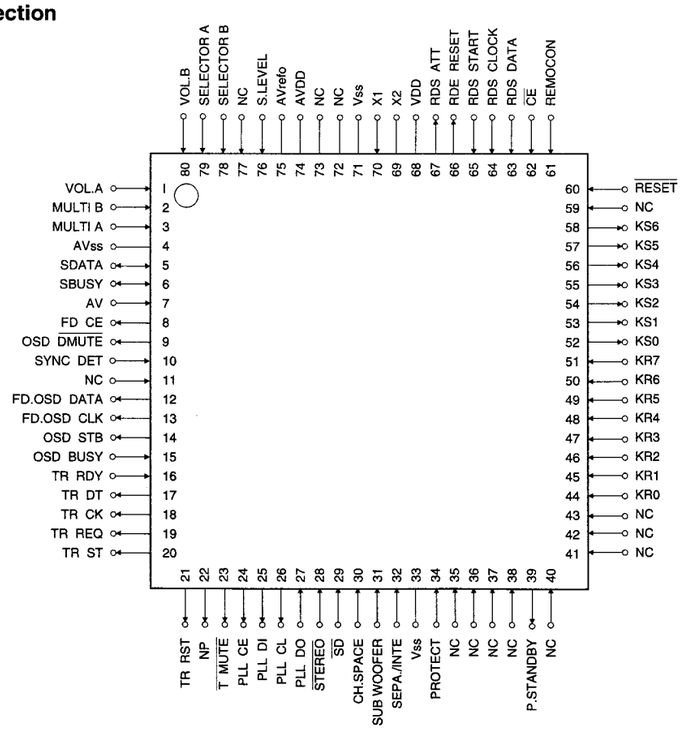
(10) POWER INDICATOR LED

CIRCUIT DESCRIPTION

1.2 Microprocessor periphery block diagram



1.3 Pin connection



CIRCUIT DESCRIPTION

1.4 Pin function

Pin No.	Pin Name	I/O	Description		
1	VOL.A	I	VOLUME ROTARY ENCODER (EVQ WP7 F20 24B) PHASE A		
2	MULTI.B	I	MULTI CONTROL ROTARY ENCODER (EC16B 1220 400A) PHASE B		
3	MULTI.A	I	MULTI CONTROL ROTARY ENCODER (EC16B 1220 400A) PHASE A		
4	AVss	-	A/D power supply (GND)		
5	SDATA	I/O	8/16 bit system serial DATA		
6	SBUSY	I/O	8/16 bit system serial BUSY		
7	AV	I	VDD D/A reference voltage (+5V)		
8	FD CE	O	FL DRIVER IC (LC75711E) control CE		
9	OSD $\overline{\text{DMUTE}}$	O	OSD IC (UPD6452GT-603) control MUTE		
10	SYNC DET	I	OSD IC (UPD6452GT-603) control SYNC		
11	NC	I	Unused		
12	FD.OSD DATA	O	FL DRIVER IC (LC75711E) OSD IC (UPD6452GT-603) control DATA		
13	FD.OSD CLK	O	FL DRIVER IC (LC75711E) OSD IC (UPD6452GT-603) control CLOCK		
14	OSD STB	O	OSD IC (UPD6452GT-603) control STROBE		
15	OSD BUSY	I	OSD IC (UPD6452GT-603) control BUST		
16	TR RDY	I	SUB μ-COM Communication READY		
17	TR DT	O	SUB μ-COM Communication DATA		
18	TR CK	O	SUB μ-COM Communication CLOCK		
19	TR REQ	O	SUB μ-COM Communication REQUEST		
20	TR ST	O	SUB μ-COM Communication STROBE		
21	TR RST	O	SUB μ-COM Communication RESET		
22	NC	O	Unused		
23	$\overline{\text{T MUTE}}$	O	Tuner control MUTE	H:OFF	L:ON
24	PLL CE	O	PLL IC(LC7218) control CE		
25	PLL DI	O	PLL IC(LC7218) control DATA		
26	PLL CL	O	PLL IC(LC7218) control CLOCK		
27	PLL DO	I	PLL IC(LC7218) DO input		
28	$\overline{\text{STEREO}}$	I	TUNER STEREO input		
29	$\overline{\text{SD}}$	I	TUNER SD input		
30	CH.SPACE	I	CHANNEL SPACE SW destination detect		
31	SUB WOOFER	I	SUB WOOFER SPEAKER ON/OFF SW detect		
32	SEPA./INTE.	I	AMP SEPARATED/INTEGRATED SW destination detect		
33	Vss	-	GND		
34	PROTECT	I	PROTECTION detect (from sub μ-com)	H:ON	L:OFF
35~38	NC	I	Unused		
39	P.STANDBY	O	Power standby LED control		
40~43	NC	I	Unused		
44~51	KR0~KR7	I	KEY RETURN	H:ON	L:OFF
52~58	KS0~KS6	O	KEY SCAN	H:ON	L:OFF
59	NC	I	Unused		
60	$\overline{\text{RESET}}$	I	RESET detection	H:OTHERS	L:RESET
61	REMOCON	I	REMOCON		
62	$\overline{\text{CE}}$	I	BACK UP detection	H:OTHERS	L:BACK UP
63	RDS DATA	I	RDS IC DATA		
64	RDS CLOCK	I	RDS IC CLOCK		
65	RDS START	I	RDS IC START		
66	RDS RESET	O	RDS IC control RESET		

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
67	RDS ATT	O	RDS IC control ATT
68	VDD	-	μ-com power supply (+5)
69	X2	-	4.19 MHz oscillator
70	X1	I	4.19 MHz oscillator
71	Vss	-	GND
72	NC	-	Unused (GND)
73	NC	-	GND
74	AVDD	-	A/D analog power supply
75	AVrefo	-	A/D reference voltage
76	S.LEVEL	I	TUNER S.LEVEL
77	NC	I	Unused
78	SELECTOR B	I	MULTI CONTROL ROTARY ENCODER (EVQ WP8 F20 12B) PHASE B
79	SELECTOR A	I	MULTI CONTROL ROTARY ENCODER (EVQ WP8 F20 12B) PHASE A
80	VOL.B	I	VOLUME ROTARY ENCODER (EVQ WP7 F20 24B) PHASE B

1.5 KEY MATRIX

(NO. of ○ : μ-Com pin No.)

	㊹ KR0	㊺ KR1	㊻ KR2	㊼ KR3	㊽ KR4	㊾ KR5	㊿ KR6	(51) KR7
(52) KS(N)	DSW0	DSW 1	DSW2	100k/50k	16bit/8bit	——	——	——
(53) KS0	VISUAL FIX	——	+10	5	STEREO	DISPLAY	BALANCE L	DIRECT
(54) KS1	TREBLE UP	——	0	4	LINE STRAIGHT	PTY	BALANCE R	MEMORY
(55) KS2	TREBLE DOWN	——	9	3	TAPE2	AF	MUTE	TUNING UP
(56) KS3	BASS UP	HOME THX CINEMA	8	2	Dolby Surround	MONO	CHANNEL MODE	TUNING DOWN
(57) KS4	BASS DOWN	SPEAKER B	7	1	Dolby 3 - Steleo	CENTER MODE	DELAY TIME	BAND
(58) KS5	TONE CONTROL	SPEAKER A	6	POWER	DSP LOGIC	TEST TONE	PRESENCE LEVEL	AUTO / MANUAL

(Destination select)

DSW · 1 · 2 : TUNER destination select

100 k / 50 k: PTY SEARCH 100 kHz / 50 kHz select

16 bit / 8 bit: SERIAL 16bit/8bit select

CIRCUIT DESCRIPTION

2. Conditions according to the destination and model

TUNER

Destination	DIODE SW (X11-) DSW2 D111	DSW1	DSW0 D110	BAND	Receiving Remarks	Channel Space	IF	Reference Frequency
K1 (1700)	0	0	0	FM	87.5 MHz-108.0 MHz	100 kHz	+10.7 MHz	50 kHz
				AM	530 kHz-1700 kHz	10 kHz	+450 kHz	10 kHz
K2 (1610)	0	0	1	FM	87.5 MHz-108.0 MHz	100 kHz	+10.7 MHz	50 kHz
				AM	530 kHz-1610 kHz	10 kHz	+450 kHz	10 kHz
E1	0	1	1	FM	87.5 MHz-108.0 MHz	50 kHz	+10.7 MHz	50 kHz
				AM	531 kHz-1602 kHz	9 kHz	+450 kHz	9 kHz
E3 (RDS)	1	0	1	FM1	87.5 MHz-108.0 MHz	50 kHz	+10.7 MHz	50 kHz
				AM	531 kHz-1602 kHz	9 kHz	+450 kHz	9 kHz
M	0	X	1	K2/E1 changes by only setting "DSW1"(DSW1 = 0: K2 Type, 1: E1 type)				

*DIODE SW (DSWX): 0= Without DIODE (when static, input LOW)
1= With DIODE (when static, input HIGH)
X= TRANSISTOR SW (0= OFF 1= ON)

2.1 Test mode

(1) Setting method

While pressing the TUNING DOWN key,plug the power cord to the AC wall outlet.

When the test mode is entered,the FL tube display all lights.

(2) Key and functions valid in test mode.

Input key	Function
V.FIX	Each time the key is pressed,the FL test mode alternates with auto. → FLL all lights mode → Grid test mode → Segment test mode → Turn off display →
BALANCE L	Each time the key is pressed, the BALANCE level alternates. L. MAX ◄► CENTER
BALANCE R	Each time the key is pressed, the BALANCE level alternates. CENTER ◄► R MAX
when the following key is pressed,the FL tube display turn on TONE.	
BASS UP	Each time the key is pressed, the BASS level alternates. → MAX(+8dB) → 0dB → MIN(-8dB) →
BASS DOWN	Each time the key is pressed, the VOLUME CONTROL level alternates. → MAX(+16dB) → 0dB → MIN(- dB) →
TREBLE UP	Each time the key is pressed,the TREBLE level alternates. → MAX(-8dB) → 0dB → MIN(-∞ dB) →
When the following Key is pressed,the FL tube display turn on THX, PROLOGIC, 3STEREO, DSP LOGIC. Then round the MULTI CONTROL knob.	
DELAY TIME	The delay time alternates. (THX,PROLOGIC,DSP LOGIC) → MAX(30ms) → CENTER(20ms) → MIN(15ms) →
CHANNEL LEVEL	The channel level alternates,(THX,PROLOGIC,3 STEREO,DSP LOGIC) → MAX(+12dB) → 0dB → MIN(-12dB) →
EFFECT LEVEL	The effect level alternates. (DSP LOGIC) → MAX(5) → 3 → MIN(1) →

(3) Method of cancelling the test mode

While pressing the POWER key,plug the power cord to the AC wall outlet.

CIRCUIT DESCRIPTION

3. Sub microprocessor : μPD78053GC-059 (X13:IC5)

3.1 BACK UP DATA

3.1.1 Initial setting

POWER ON/OFF : OFF
MAIN VOLUME LEVEL : -45dB
L/R BALANCE :CENTER
SOUND INPUT-SELECTOR : TUNER
VIDEO SIGNAL INPUT-SELECTOR : VIDEO1

SPEAKER A : ON
SPEAKER B : OFF
TAPE2/MONITOR : OFF
LINE STRAIGHT : OFF
DIMMER : OFF
VISUAL FIX : OFF

OSD DISPLAY MODE : INFORMATION ON
Dot Matrix DISPLAY MODE : INPUT SELECTOR

TONE CONTROL : DEFEAT
TONE CONTROL BASS LEVEL : 0dB
TONE CONTROL TREBLE LEVEL : 0dB

SURROUND MODE : BYPASS
HOME THX CINEMA-DOLBY PRO LOGIC •DOLBY 3-STEREO•DSP LOGIC
CENTER MODE : WIDEBAND
HOME THX CINEMA•DOLBY PRO LOGIC
DELAY TIME : 20 msec
DSP LOGIC DELAY TIME : 20 msec
INPUT LEVEL : 0dB
ROOM SIZE : 2
EFFECT LEVEL : 2
WALL : 2
FRONT Lch VOLUME LEVEL : 0dB
FRONT Rch VOLUME LEVEL : 0dB
CENTER VOLUME LEVEL : 0dB
REAR Lch VOLUME LEVEL : 0dB
REAR Rch VOLUME LEVEL : 0dB
SUB WOOFER VOLUME LEVEL: 0dB
TEST TONE : OFF

DECK REC DETECT PLAG : NOT REC
CCRS DETECT PLAG : NOT CCRS
TUNER MONO : OFF
TUNING MODE : AUTO
PRESET MEMORY : TEST PRESET FREQUENCY
LAST BAND : FM
FM LAST Frequency : 87.5MHz
AM.MW LAST Frequency : CH SPACE 9K:531kHz
: CH SPACE 10K:530kHz

LAST P.ch : ⌈--ch⌋

PTY SELECT MODE : OFF
PTY SEARCH MODE : OFF
AF SEARCH MODE : OFF
RDS DISPLAY MODE : FREQUENCY DISPLAY MODE

3.1.2 TEST RESET FREQUENCY

TYPE / CH	K1 TYPE		K2 TYPE		E TYPE	
	BAND	FREQ-UENCY	BAND	FREQ-UENCY	BAND	FREQ-UENCY
1	FM	87.50	FM	57.50	FM	87.50
2	FM	98.00	FM	98.00	FM	98.00
3	FM	108.00	FM	108.00	FM	108.00
1	AM	630	AM	630	AM	630
5	AM	990	AM	900	AM	990
6	AM	1440	AM	1440	AM	1440
7	FM	87.50	FM	87.50	FM	87.50
6	FM	87.50	FM	87.50	FM	87.00
0	FM	87.50	FM	87.50	FM	87.50
10	FM	89.10	FM	89.10	FM	89.10
11	FM	88.00	FM	88.00	FM	88.00
12	FM	90.00	FM	90.00	FM	90.00
13	FM	97.50	FM	97.50	FM	97.50
14	FM	98.60	FM	98.50	FM	98.60
15	FM	106.00	FM	106.00	FM	106.00
16	AM	530	AM	530	KM	531
17	AM	1000	AM	1000	AM	999
18	AM	1700	AM	1610	AM	1602
19	FM	96.30	FM	96.30	FM	96.30
20	FM	107.00	FM	107.00	FM	107.00
21~40	FM	87.50	FM	87.50	FM	87.50

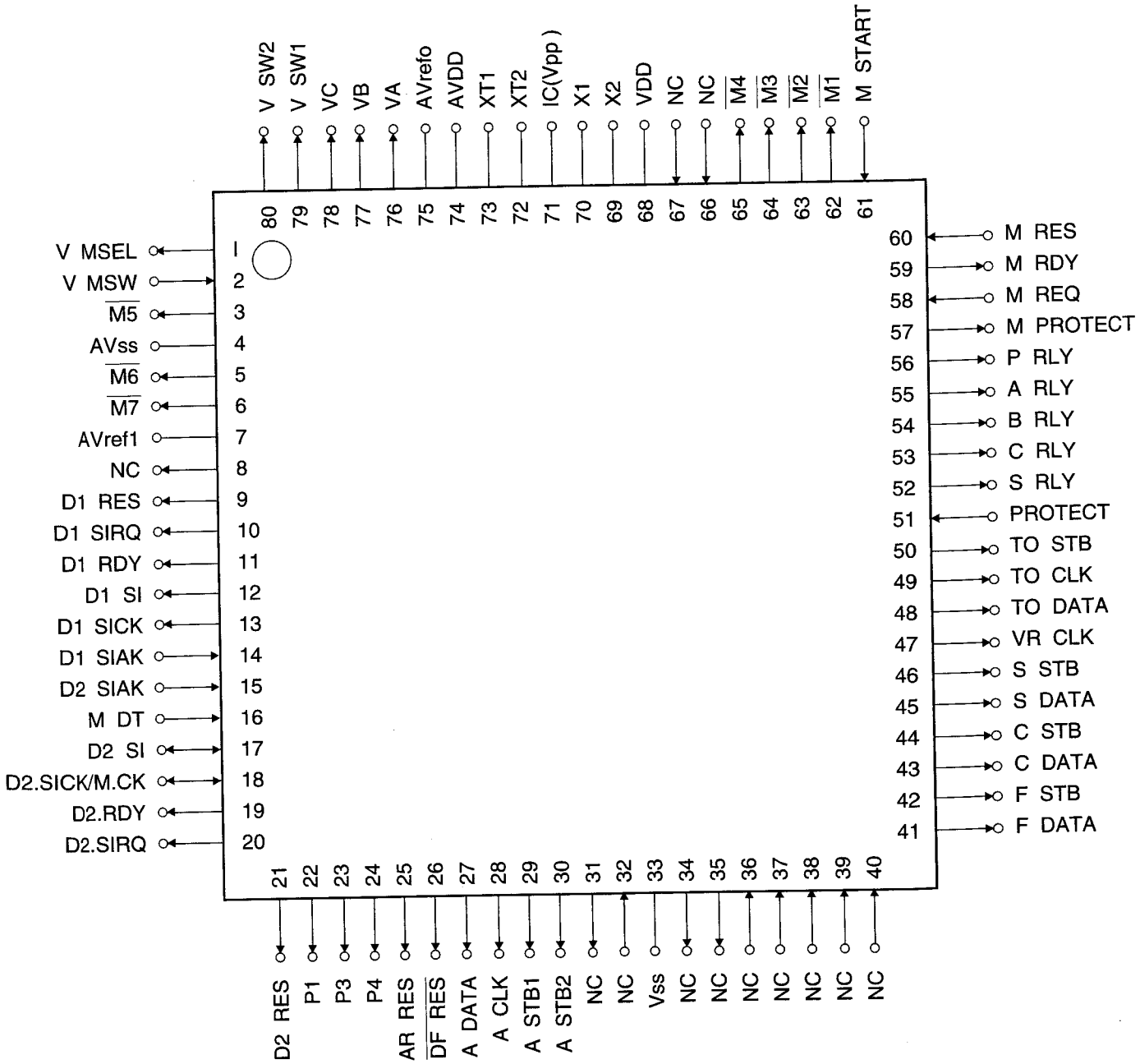
Frequency unit FM : MHz
AM : kHz

The initial setting is performed in a following event:
1. When back up memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall while pressing to POWER key.

CIRCUIT DESCRIPTION

4. Sub microprocessor : μPD78053GC-059 (X13 : IC5)

4.1 Pin connection



CIRCUIT DESCRIPTION

4.2 Pin function

Pin No.	Pin Name	I/O		Description
1	V MSEL	O	P.U	MONITOR SEL IC (TC405S) control
2	V MSW	I	-	MONITOR SW H: COMPOSITE L: S-terminal
3	$\overline{M5}$	O	P.D	MONITOR MUTE
4	AVss	-	GND	A/D REFERENCE VOLTAGE
5	$\overline{M6}$	O	P.D	VIDEO REC MUTE1
6	$\overline{M7}$	O	P.D	VIDEO REC MUTE2
7	AVref1	-	VDD	A/D REFERENCE VOLTAGE
8	NC	O	P.D	NO USE
9	D1 RES	O	-	DSP IC (LC83016) RESET
10	D1 SIRQ	O	P.U	DSP IC (LC83016) REQUEST
11	D1 RDY	O	P.U	DSP IC (LC83016) REDEY
12	D1 SI	O	P.U	DSP IC (LC83016) DATA
13	D1 SICK	O	P.U	DSP IC (LC83016) CLOCK
14	D1 SIAK	I	P.D	DSP IC (LC83016)
15	D2 SIAK	I	P.D	DSP IC (LC83017)
16	MDT	I	P.U	Main μ-Com DATA
17	D2 SI	I/O	P.U	DSP IC (LC83017) DATA
18	D2.SICK/MCK	I/O	P.U	DSP IC (LC83017) CLOCK
19	D2 RDY	O	P.U	DSP IC (LC83017) REDEY
20	D2 SIRQ	O	P.U	DSP IC (LC83017) REQUEST
21	D2 RES	O	-	DSP IC (LC83017) RESET
22	P1	O	-	DSP IC (LC83017) Port P1 DATA
23	P3	O	-	DSP IC (LC83017)
24	P4	O	-	DSP IC (LC83017) Port P4 DATA
25	AD RES	O	-	A/D RESET
26	$\overline{DF\ RES}$	O	-	Digital filter RESET
27	A DATA	O	-	Selector IC (TC9162,TC9163,TC9164)DATA INPUT SEL,INPUT LEVEL IC (TC9162,TC,9163,TC9164)DATA
28	A CLK	O	-	Selector IC(TC9162,TC9163,TC9164)DATA INPUT SEL,INPUT LEVEL IC (IC9162,TC9163,TC9164)CLOCK
29	A-STB1	O	-	INPUT SEL. INPUT LEVEL IC INPUT SEL,INPUT LEVEL IC (TC9162,9163,9164) STB (TC9162,9163,9164)STROBE
30	A STB2	O	-	MODE SEL IC MODEL SEL IC(TC9162TC9162,TC9163, TC9163) STROBE
31	NC	O	P.U	NO USE
32	NC	I	P.D	NO USE
33	Vss	-	GND	GND
34	NC	O	P.V	NO USE
35	NC	O	P.D	NO USE
36	NC	I	P.U	NO USE
37	NC	I	P.U	NO USE
38	NC	I	P.U	NO USE
39	NC	I	P.U	NO USE
40	NC	I	P.U	NO USE
41	F DATA	O	-	FRONT VOL IC (TC9213P)
42	F STB	O	-	FRONT VOL IC (TC9213P) STROBE
43	C DATA	O	-	CENTER (TC9213P) DATA
44	C STB	O	-	CENTER (TC92123P) STROBE
45	S DATA	O	-	SURROUND VOL IC(TC9213P) DATA
46	S STB	O	-	SURROUND VOL IC(TC9213P) STROBE
47	VR CLK	O	-	VOL IC (TC9213P) CLOCK

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O		Description
48	TO DATA	O	-	TONE IC(TC9184P) DATA
49	TO CLK	O	-	TONE IC(TC9184P) DATA
50	TO STB	O	-	TONE IC(TC9184P) STROBE
51	PROTECT	I	-	PROTECTION DETECT
52	S RLY	O	P. D	Sch RELAY
53	C RLY	O	P. D	Cch RELAY
54	B RLY	O	P. D	Fch B RELAY
55	A RLY	O	P. D	Fch A RELAY
56	P RLY	O	P. D	POWER RELAY
57	M ROTEC	O	-	PROTECTION to main μ-Com
58	M REQ	I	P. D	Main μ-Com REQUEST
59	M RDY	O	P. U	Main μ-Com REDEY
60	M RES	I	P. D	Main μ-Com RESET
61	M START	I	P. D	Main μ-Com START
62	$\overline{M1}$	O	P. U	Fch MUTE
63	$\overline{M2}$	O	P. U	Cch MUTE
64	$\overline{M3}$	O	P. U	SUPER WOOFER MUTE
65	$\overline{M4}$	O	P. U	Sch MUTE
66	NC	I	P. D	NO USE
67	NC	I	P. D	NO USE
68	VDD	-	-	+5V
69	X2	-	-	4.19MHz
70	X1	-	-	4.I9MHZ
71	IC(Vpp)	-	-	GND
72	XT2	-	OPEN	NO USE
73	XT1	-	GND	NO USE
74	AVDD	-	VDD	NO USE
75	AVrefo	-	GND	NO USE
76	VA	O	P.U	VIDEO SEL IC (TC4051) control
77	VB	O	P.D	VIDEO SEL IC (TC4051) control
78	VC	O	P.U	VIDEO SEL IC (TC4051) control
79	V SW1	O	P.U	VIDEO REC IC (NJM2297) control
80	V SW2	O	P. U	VIDEO REC IC (NJM2297) control

CIRCUIT DESCRIPTION

4.3 SELECTOR IC

4.3.1 AUDIO INPUT

○ : SW ON　＊ : Refer to INPUT LEVEL

MODE \ SW		(X08:IC2)TC9162N							(X08:IC4)TC9163N								(X08:IC3)TC9164N							
		S1	S2	S3	S4	S5	S6	S7	S1	S2	S3	S4	S5	S6	S7	S8	S1	S2	S3	S4	S5	S6	S7	S8
TAPE2 OFF	CD		○			○		○							○	○		○			＊	＊	＊	＊
	PHONO					○	○	○							○	○		○			＊	＊	＊	＊
	TUNER	○				○		○							○	○		○			＊	＊	＊	＊
	TAPE1				○	○									○	○		○			＊	＊	＊	＊
	AUX			○		○		○							○	○		○			＊	＊	＊	＊
	VIDEO1					○		○							○			○			＊	＊	＊	＊
	VIDEO2					○		○					○			○		○			＊	＊	＊	＊
	VIDEO3					○		○				○			○	○		○			＊	＊	＊	＊
	VIDEO4					○		○			○				○	○		○			＊	＊	＊	＊
	VIDEO5					○		○	○						○	○		○			＊	＊	＊	＊

MODE \ SW		(X08:IC2)TC9162N							(X08:IC4)TC9163N								(X08:IC3) TC9164N							
		S1	S2	S3	S4	S5	S6	S7	S1	S2	S3	S4	S5	S6	S7	S8	S1	S2	S3	S4	S5	S6	S7	S8
TAPE2 ON	CD		○					○							○	○	○				＊	＊	＊	＊
	PHONO						○	○							○	○	○				＊	＊	＊	＊
	TUNER	○						○							○	○	○				＊	＊	＊	＊
	TAPE1				○										○	○	○				＊	＊	＊	＊
	AUX			○				○							○	○	○				＊	＊	＊	＊
	VIDEO1							○						○	○		○				＊	＊	＊	＊
	VIDEO2							○					○			○	○				＊	＊	＊	＊
	VIDEO3							○				○			○	○	○				＊	＊	＊	＊
	VIDEO4							○			○				○	○	○				＊	＊	＊	＊
	VIDEO5							○	○						○	○	○				＊	＊	＊	＊

4.3.2 VIDEO INPUT

		(X14:IC5~7) TC4051BP			(X14:IC10,11) TC4053BP			(X14:IC8) NJM2279D		(X14:IC9) NJM2279D	
		⑨ C	⑩ B	⑪ A	⑨ C	⑩ B	⑪ A	② SW1,⑬ SW2 (V SW1)	⑪ 7MUTE1, ④ MUTE2 (M6)	②SW1, ⑬SW2 (V SW2)	⑪MUTE1,④MUTE2 (M7)
C	VIDEO1	L	L	H	H	H	H	H	L	L	H
	VIDEO2	L	L	L	H	H	H	L	H	H	L
	VIDEO3	L	H	H	H	H	H	L	H	L	H
	VIDEO4	H	L	H	H	H	H	L	H	L	H
	VIDEO5	L	H	L	H	H	H	L	H	L	H
S	VIDEO1	L	L	H	L	L	L	N	L	L	H
	VIDEO2	L	L	L	L	L	L	L	H	H	L
	VIDEO3	L	H	H	L	L	L	L	H	L	H
	VIDEO4	H	L	H	L	L	L	L	H	L	H
	VIDEO5	L	H	L	L	L	L	L	H	L	H

CIRCUIT DESCRIPTION

4.3.3 INPUT LEVEL

○ : SW ON

				(X11:IC1)TC9I63N							
				S1	S2	S3	S4	S5	S6	S7	S8
※INTEGRATED	STEREO	SP B	ON						○		
			OFF					○			
		TONE	ON							○	
			OFF								○
		SUB WOOFER	ON	○							
			OFF		○						
	LINE STRAIGHT ON	SP B	ON					○			
			OFF				○				
		SUB WOOFER	ON	○							
			OFF		○						
	THX					○		○			○
	PRO LOGIC					○		○			○
	3 STEREO					○		○			○
	DSP LOGIC					○		○			○
	MONO					○		○			○
※SEPARATED	STEREO	TONE	ON							○	
			OFF								○
		SUB WOOFER	ON	○							
			OFF		○						
	LINE STRAIGHT ON	SUB WOOFER	ON	○							
			OFF		○						
	THX					○		○			○
	PRO LOGIC					○		○			○
	3 STEREO					○		○			○
	DSP LOGIC					○		○			○
	MONO					○		○			○

※Decide INTEGRATED or SEPARATED with the rear panel sw(X11:S2)
※Speakers B doesn't turn on with SEPARATE

4.3.4 INPUT LEVEL

○ : SW ON　　＊ : Refer to AUDIO INPUT

	(X08:IC3) TC9164N							
	S1	S2	S3	S4	S5	S6	S7	S8
0dBs	＊	＊			○			
-2dB	＊	＊				○		
-4dB	＊	＊					○	
-6dB	＊	＊						○

4.4 MUTE

4.4.1 MUTE

In the following are shown the conditions to be taken into consideration for MUTE control:

- There is no difference of MUTE control between the separated mode and the integrated mode.
- When "3 STEREO" is used, S-MUTE shall be activated.
- When 2 ch. (STEREO and LINE STRAIGHT) are used, C-and S-MUTE shall be activated
- When the SUB WOOFER SW is OFF,SUB WOOFER MUTE shall be activated.
- When the PHANTOM is used. C-MUTE shall be activated.
- In the separated mode, the SP B cannot be turned ON.
- When the SP B is turned ON in the integrated mode, S-MUTE shall not be activated.
- when both SP A and B are OFF (i.e. when a headphone is used)in the integrated mode, SW MUTE is activated even if the SW switch has been turned ON, where:

(1) S ch. shall be muted because it is not connected to the headphone jack;
(2) C ch. will be adjusted to the center mode; and
(3) F ch. shall not be muted because a headphone is used.

- When both SP A and B are OFF, both S-ch, and SW-ch, are muted to turn OFF the pre-out.
- When both SP A and B are OFF in the separated mode, S-ch. and SW-ch. MUTE are controlled as usual so that the pre-out will not be turned OFF.
- Since the audio from the headphone was initially created in the F.C.SW (No "S"), there was a problem that it sounded differently by the setting of the SW-ch. (ON or OFF) both in the integrated mode and in the separated mode when SP A and B are OFF. However, this problem has been finally solved by adding two-stage MUTE to the circuit and by improving the software so that P-MUTE will not be activated in the MONO mode. In the following is shown the list of MUTE control.

CIRCUIT DESCRIPTION

○ : MUTE ON

				F MUTE	C MUTE	S MUTE	SW MUTE
INTEGRATE SEPARATED	SP A ON SP B OFF	THX PRO LOGIC DSP LOGIC (NORMAL, WIDE)	SUB WOOFER SW ON				
			SUB WOOFER SW OFF				○
		MONO (NORMAL, WIDE)	SUB WOOFER SW ON			○	
			SUB WOOFER SW OFF			○	○
		THX PRO LOGIC DSP LOGIC (PHANTOM)	SUB WOOFER SW ON		○		
			SUB WOOFER SW OFF		○		○
		MONO (PHANTOM)	SUB WOOFER SW ON		○	○	
			SUB WOOFER SW OFF		○	○	○
		3 STEREO	SUB WOOFER SW ON			○	
			SUB WOOFER SW OFF			○	○
		STEREO, LINE STRAIGHT	SUB WOOFER SW ON		○	○	
			SUB WOOFER SW OFF		○	○	○

CIRCUIT DESCRIPTION

4.4.2 SPEAKERS RELAY

IN the following are whom the conditions to be taken in to consideration for SPEAKERS RELAY control.

. B RELAY turn on INTEGRATED of 2ch (STEREO, LINE STRAIGHT ON) mode only

○ : RELAY ON

			A RELAY	B RELAY	C RELAY	S RELAY
INTEGRATED	SP A ON SP B OFF	STEREO LINE STRAIGHT ON	○		○	○
		OTHER	○		○	○
	SP A OFF SP B ON	STEREO LINE STRAIGHT ON		○	○	
	SP A ON SP B ON	STEREO LINE STRAIGHT ON	○	○	○	
	SP A OFF SP B OFF	STEREO LINE STRAIGHT ON OTHER				
SEPARATED	SP A ON SP B OFF	STEREO LINE STRAIGHT ON	○		○	○
		OTHER	○		○	○
	SP A OFF SP B OFF	STEREO LINE STRAIGHT ON OTHER				

4.4.3 TONE CONTROL

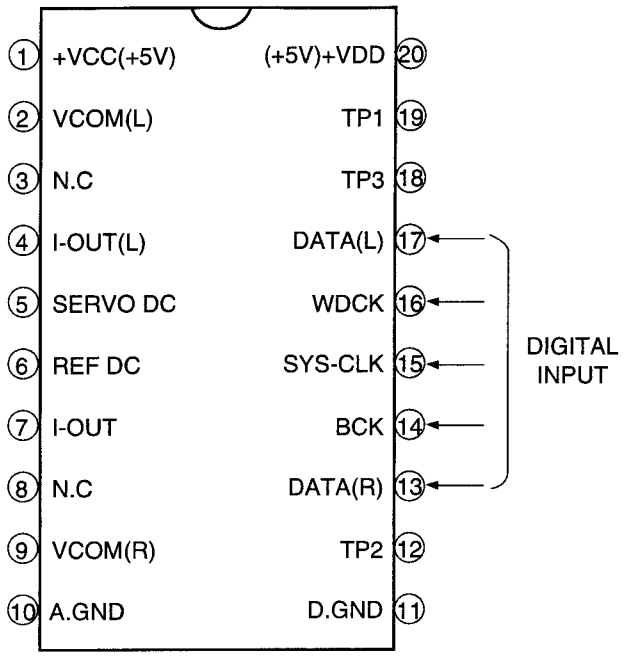
	BASS								
FL display	-8	-6	-4	-2	0	+2	+4	+6	+8
ATTENUATOR[dB]	-10	-8	-6	-2	0	-4	-6	-8	-10

	TREBLE								
FL display	-8	-6	-4	-2	0	+2	+4	+6	+8
ATTENUATOR[dB]	-12	-10	-8	-6	0	+6	+8	+10	+12

CIRCUIT DESCRIPTION

5. D/A Convertor : PCM69AV(X08 : IC 27~29)

5.1 Pin connection



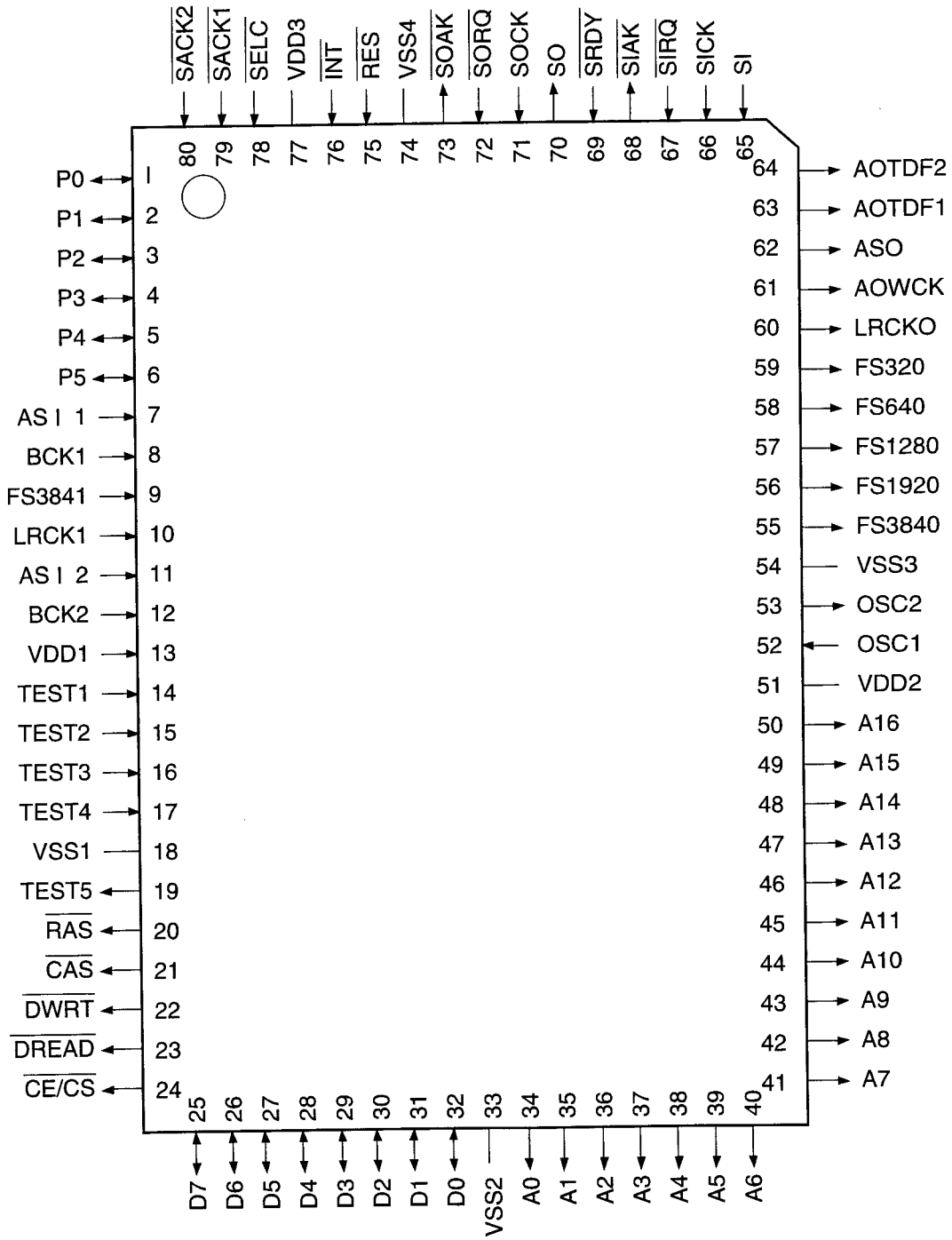
5.2 Pin function

PIN NO.	PIN NAME	I/O	FUNCTION	PIN NO.	PIN NAME	I/O	FUNCTION
1	+Vcc		Analog(+)power supply	11	D.GND		Digital common(GND)
2	VCOM(L)		L-ch V-common	12	TP2		Test pin 2
3	N.C			13	DATA(R)	I	R-ch data input
4	I-OUT(L)	O	L-ch current output	14	BCK	I	Bit clock input
5	SERVO DC		Servo Filter	15	SYS-CLK	I	System clock input
6	REF DC		Reference filter	16	WDCK	I	Word clock input
7	I-OUT(R)	O	R-ch current output	17	DATA(L)	I	L-ch data input
8	N.C			18	TP3		Test pin 3
9	V COM(R)		R-ch V-common	19	TP1		Test pin 1
10	A.GND		Analog, common(GND)	20	+VDD		Digital (+)power supply

CIRCUIT DESCRIPTION

6. DSP IC : LS83016JE (X08 : IC41) , LS83017JE (X08 : IC42)

6.1 Pin connection



CIRCUIT DESCRIPTION

6.2 Pin function

Pin No.	Pin Name	I/O	Description
1~6	P0~P5	I/O	Input/Output port(Inside pull up resister)
7	AST1	I	Audio serial data input 1
8	ASI1	I	ASI1 bit clock input (64fs or 32fs)
9	FS3841	I	384fs or 512fs input
10	LRCK1	I	L/R channel discrimination signal input H:Lch L:Rch
11	AST2	I	Audio serial data input 2
12	BCK2	I	ASI 2 bit clock input (64fs or 32fs)
14~17	TEST1~4	I	Test pin (GND)
19	TEST5	O	Test output (open)
20	$\overline{RAS}$	O	DRAM RAS signal output
21	$\overline{CAS}$	O	DRAM CAS signal output
22	$\overline{DWRT}$	O	Memory access data write signal
23	$\overline{DREAD}$	O	Memory access data read signal
24	$\overline{CE/CS}$	O	CE signal output the SRAM
25~32	D7~D0	I/O	Memory IC data input/output (DRAM 1pc used:D3-D0) DRAM 2pcs,or SRAM used:D7-D0
34~50	A0~A16	O	Address output to Memory IC
52	OSC1	I	Crystal oscillator
53	OSC2	O	Crystal oscillator
55	FS3840	O	384fs or 512fs output (through output of FS3841 or self oscillator clock)
56	FS1920	O	192fs or 256 fs output (1/2 divided f of FS3840)
57	FS1280	O	128fs output (1/3 or 1/4 divided f of FS3840)
58	FS640	O	64fs or 32fs output(through output with 1/2 divided f of FS1280 or BCK1)
59	FS320	O	32fs or 16fs output (1/2 divided f of FS640)
60	LRCKO	O	1fs output [through output with 1/64 divided f1(=frequency) of FS640 or LRCK1]
61	AOWCK	O	2fs or 1fs output (output with 1/32 divided f)
62	ASO	O	Audio serial data output 1
63	AOTDF1	O	Audio serial data output 2
64	AOTDF2	O	Audio serial data output 3
65	SI	I	Serial data input (8bit)from μ-Com
66	SICK	I	SI serial clock input
67	$\overline{SIRQ}$	I	SI serial request signal input
68	$\overline{SIAK}$	O	Output signal to indicate that the SI serial communication is executing
69	$\overline{SRDY}$	I	input signal to indicate that the mail box communication is finished
70	SO	O	Serial data output (8bit) from μ-com
71	SOCK	I	SO serial clock input
72	$\overline{SORQ}$	I	SO request signal input
73	$\overline{SOAK}$	O	Output signal to indicate that the SO serial communication is executing
76	$\overline{INT}$	I	Unused
75	RES	I	RESET (inside pull up resister)
78	$\overline{SELC}$	I	Self oscillation and external clock input switching H:self OSC L:FS3841 (inside pull up resister)
79	$\overline{SACK1}$	I	FS3840 1/3 divided or 1/4 divided H:1/3 divided L:1/4 divided output switching to FS3840 (inside pull up resistor)
80	$\overline{SACK2}$	I	Self oscillation and external (FS3841,LRCK1,BCK1) H:self OSC L:external clock input switching

DSP ↕ μ-Com interface

13,51,77	VDD 1,2,3		+5V Power supply
18,33,54,74	VSS 1,2,3,4		GND

ADJUSTMENT

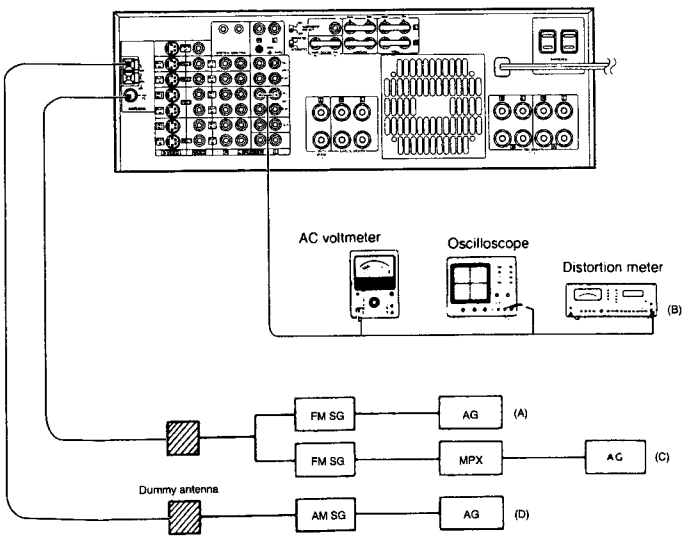
ENGLISH(E, T TYPE)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
FM SECTION			SELECTOR:FM				
1	DISCRIMINATOR	(A) 98.0MHz 1 kHz,±40kHz dev. (E,T type) 60dBμ(ANT input)	Connect a DC voltmeter between TP3 and TP4 (X05-)	AUTO or MONO 98.0MHz	L3 (X05-)	0V	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHzdev. Pilot:±6kHz dev. (E,Ttype) 6odBμ(ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	(a)

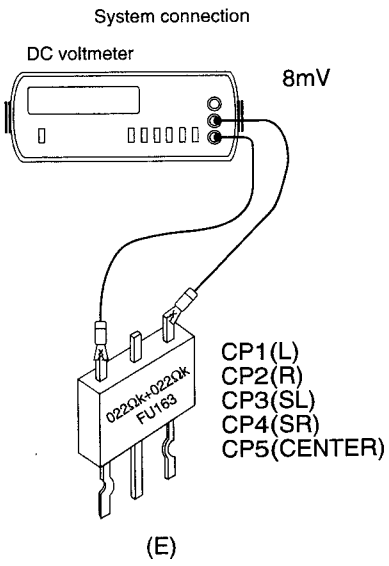
[COMMON]

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
AUDIO SECTION POWER : ON		SPEAKER : A		INPUT SELECTOR : PHONO			
<1>	OFF-SET VOLTAGE	-	Connect a DC voltmeter to each channel of speaker terminal(+,-).	-	Lch : VR1 Rch : VR2 SLch : VR5 SRch : VR6 Cch : VR9 (X14-)(A/3)	0±3mV	
<2>	IDLE IDLE CURRENT		(E) Connect a DC voltmeter across CP1(L) CP2(R) CP3(S1) CP4(SR) CP5(CENTER) (X07-)(A/5)	Volume:0	Lch : VR3 Rch : VR4 SLCH : VR7 SRCH : VR8 Cch : VR10 (X14-)(A/3)	8mV	(b)

(a)



(b)



(E)

AJUSTES

ESPANÓL(E, T TYPE)

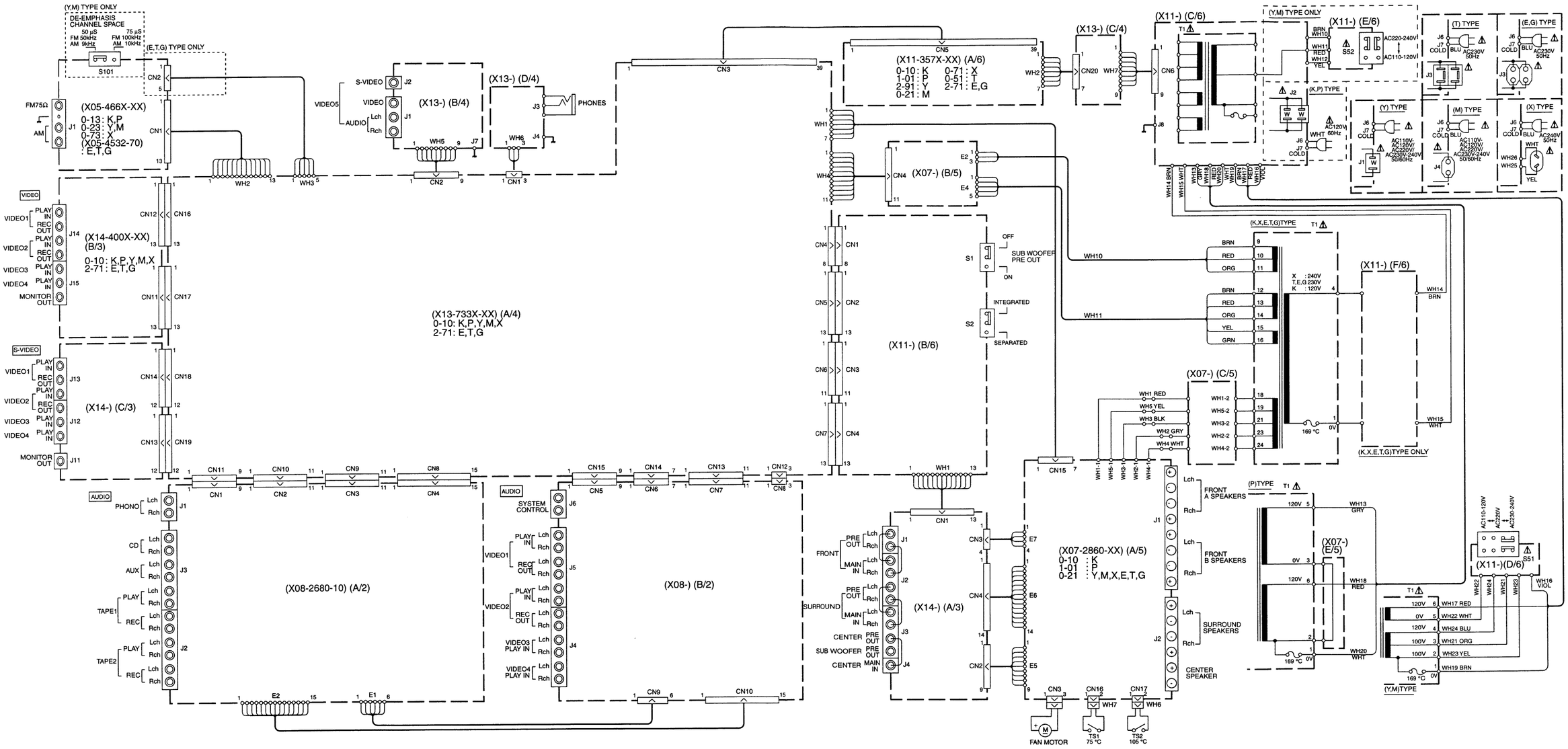
NÚm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG
SECCIÓN DE FM			SELECTOR;FM				
1	DISCRIMINATOR	(A) 98.0MHz 1 kHz,±40kHz dev. (E,T type) 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP3 y TP4 (X05-)	AUTO or MONO 98.0MHz	L3 (X05-)	0V	(a)
2	DISTORTION (ETÉREO)	(C) 98.0MHz 1kHz,±40kHzdev. Pilot:±6kHz dev. (E,Ttype) 6odBμ(Entrada de antena)	(B)	AUTO 98.0MHz	IFT (W02-)	Distortión mínima	(a)

ESPANÓL(COMMON)

NÚm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG
A menos que se especifique otra cosa, los controles individuales deberán ajustrarse de la forma sigufiente: POWER:ON SPEAKER:A INPUT SELECTOR:PHONO							
<1>	TENSION CONTRAPUESTA	-	Conecte un voltímetro de CC a cada canal del terminal del altoparlants(+ o -).	-	Lch : VR1 Rch : VR2 SLch : VR5 SRch : VR6 Cch : VR9 (X14-)(A/3)	0±3mV	
<2>	OCIOSA CORRIENTE		Connect un voltímetro de DC entre CP1(L) y CP2(R) y CP3(S1) y CP4(SR) y CP5(CENTRO) (X07-)(A/5)	Volume:0	Lch : VR3 Rch : VR4 SLCH : VR7 SRCH : VR8 Cch : VR10 (X14-)(A/3)	8mV	(b)

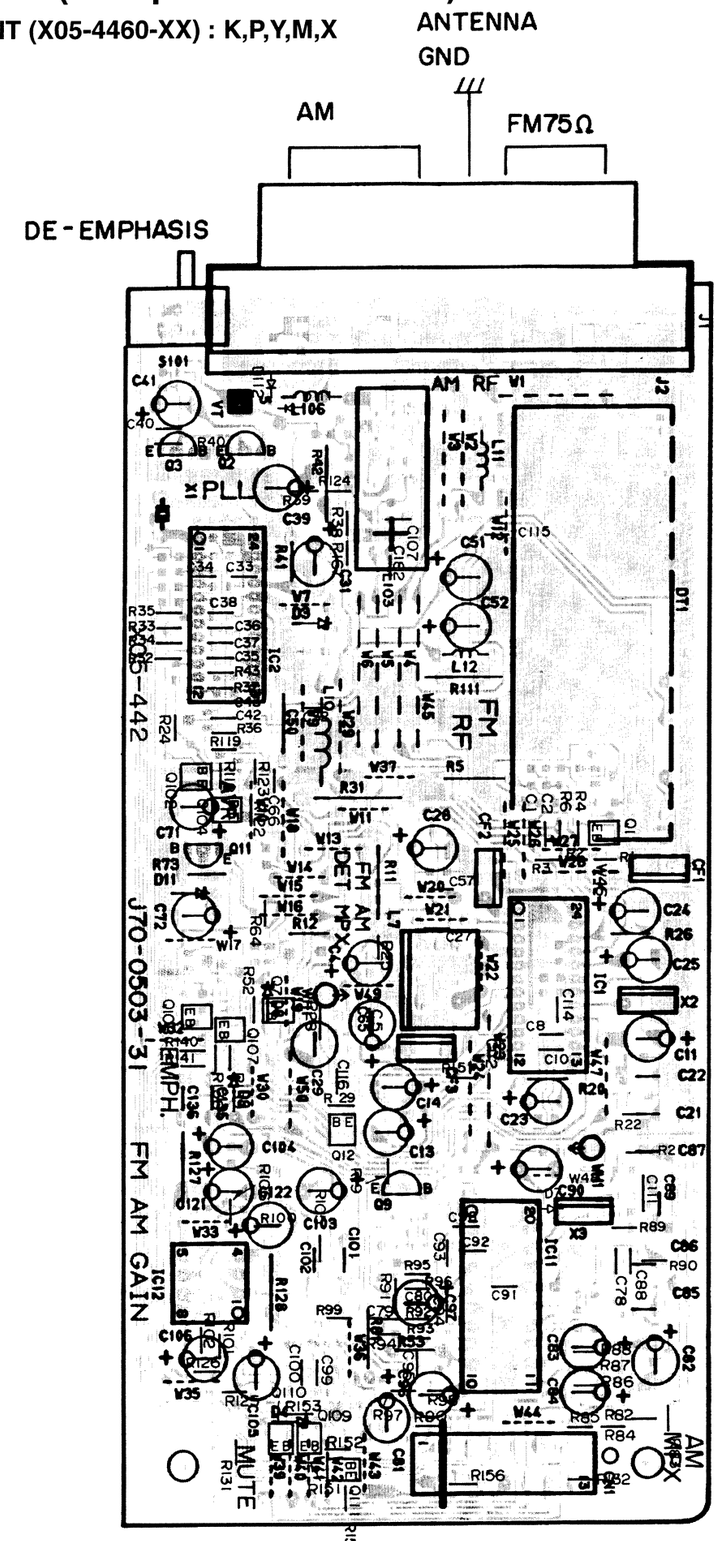
KR-X1000/(G)　KR-X1000/(G)

WIRING DIAGRAM

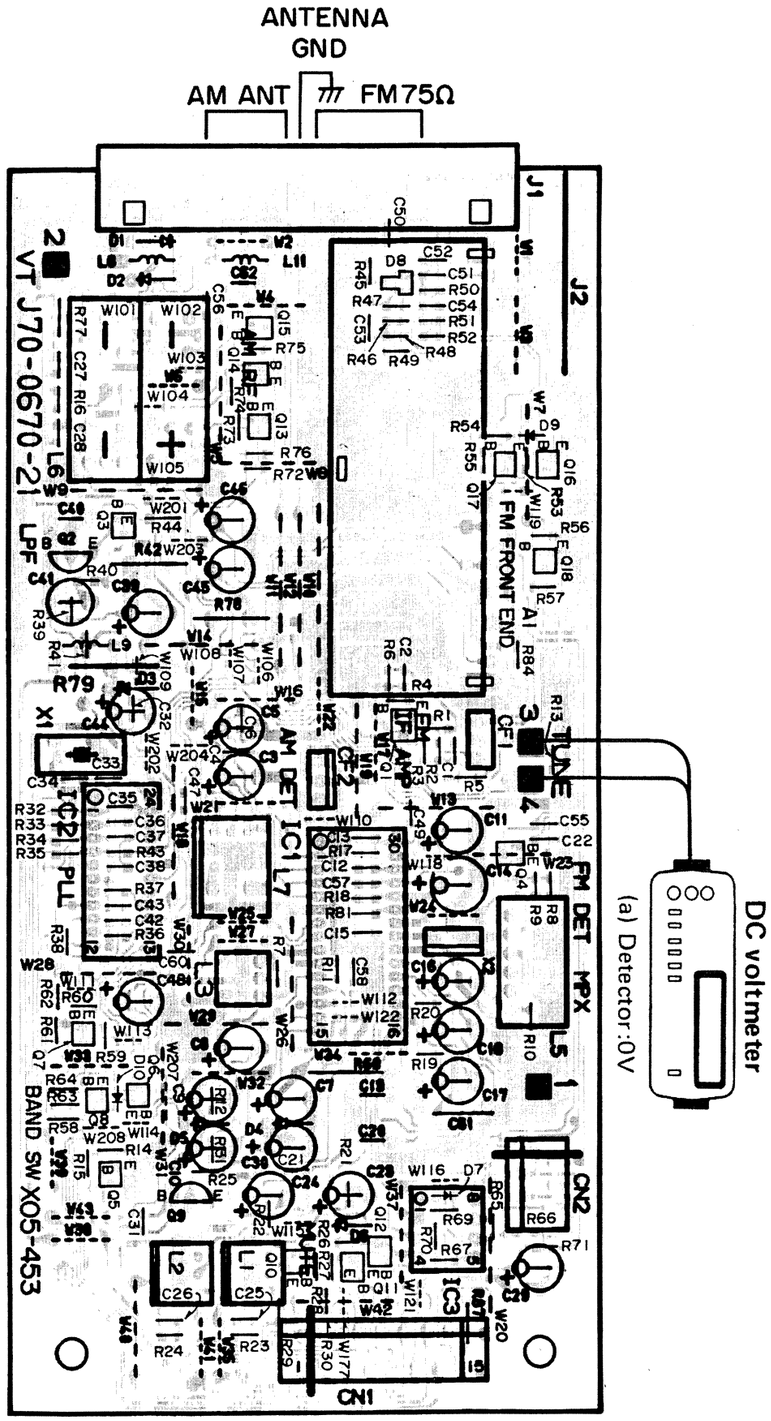


PC BOARD(Component side view)

TUNER UNIT (X05-4460-XX) : K,P,Y,M,X



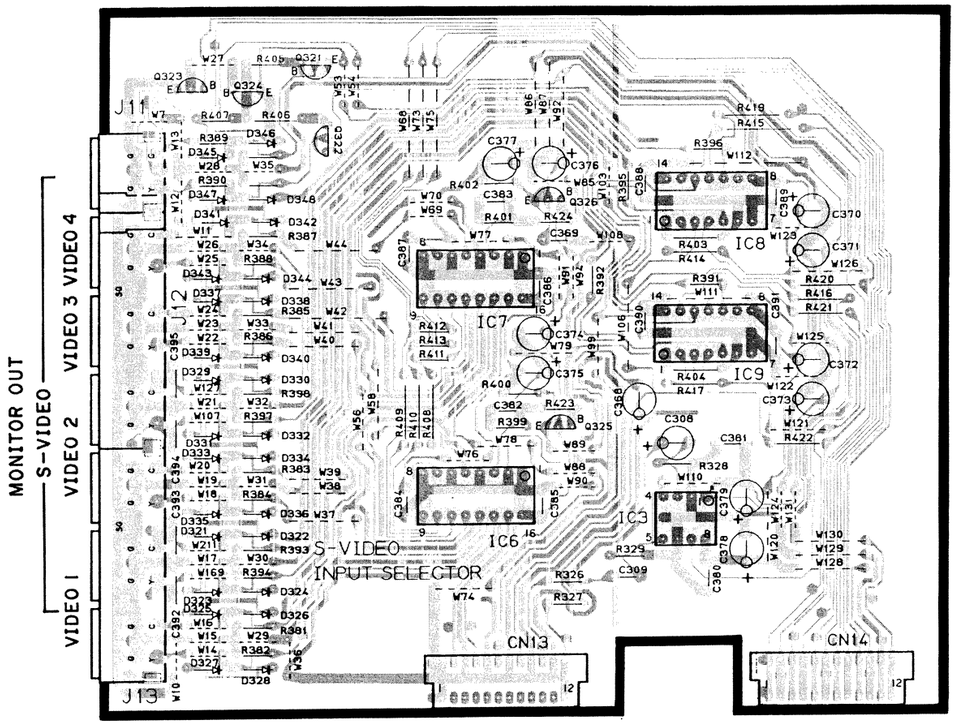
TUNER UNIT (X05-4532-70) : T,E,G



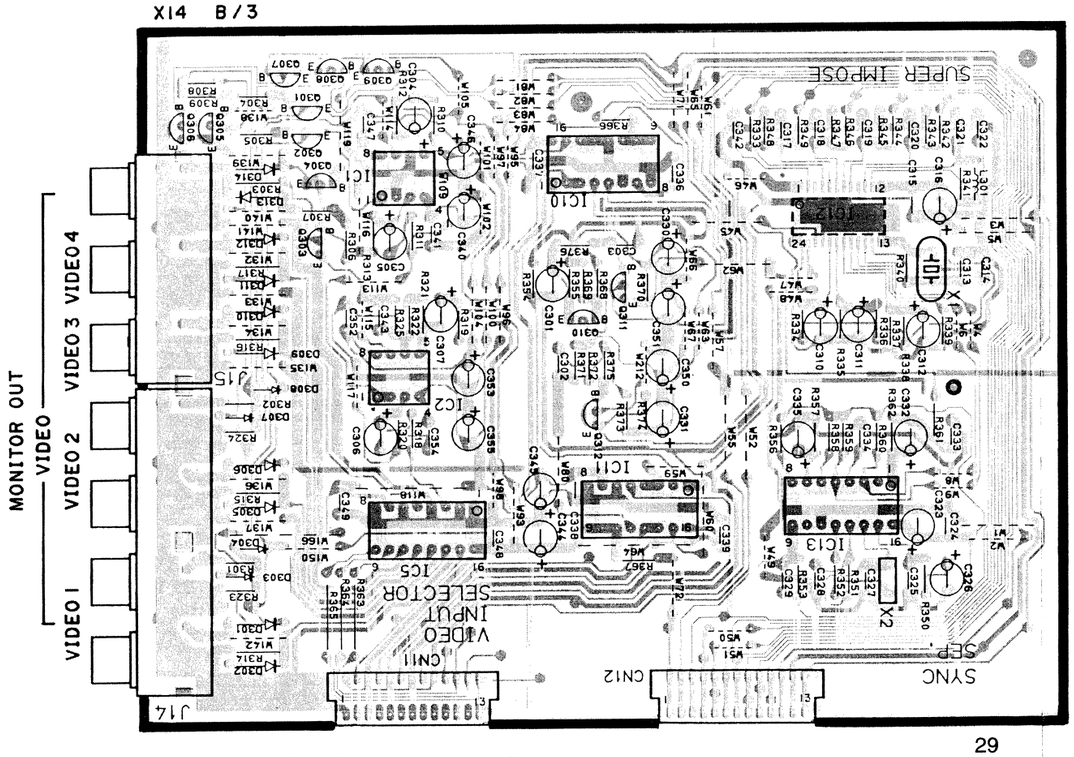
Refer to the schematic diagram for the value of resistors and capacitors.

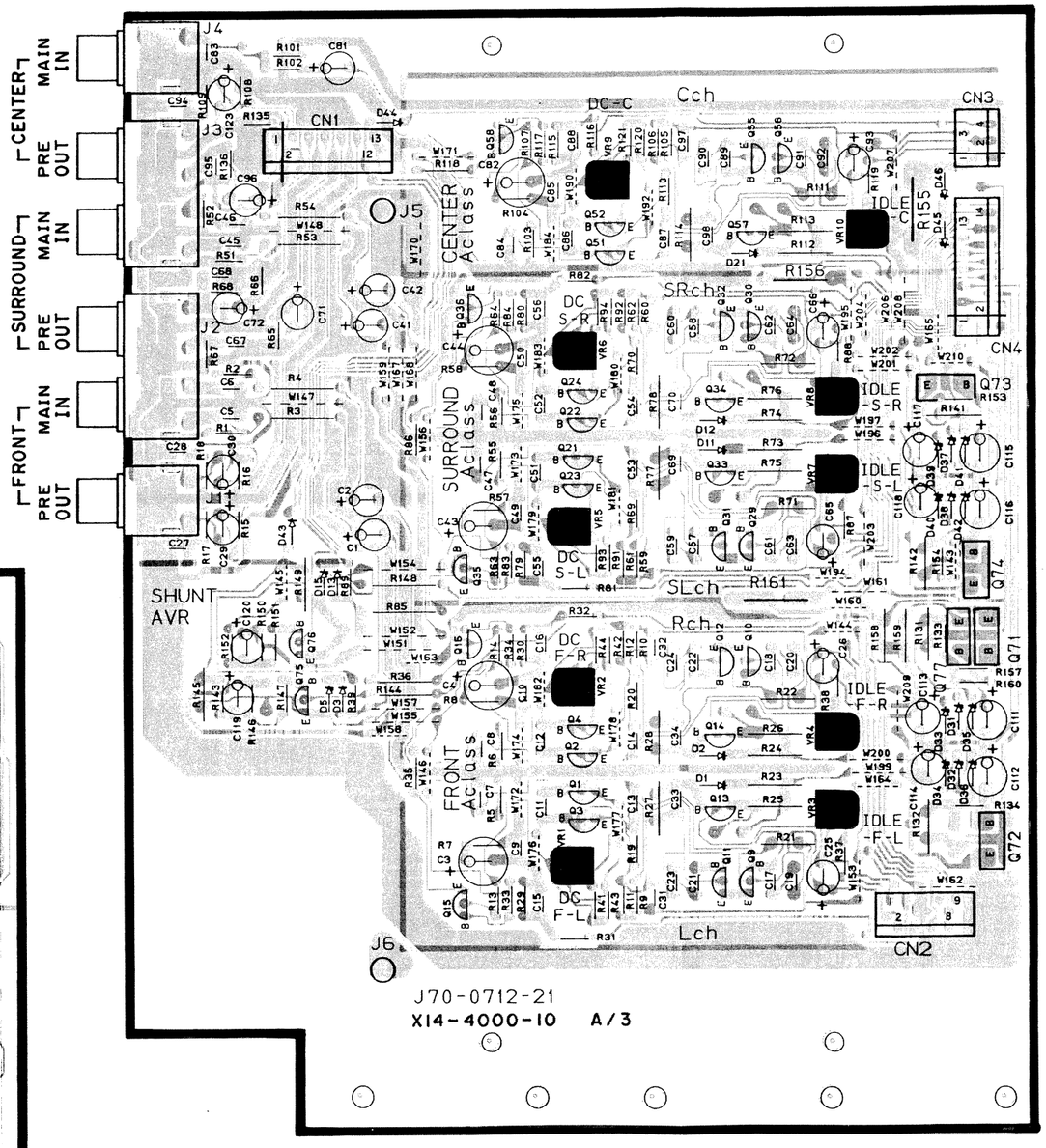
PC BOARD(Component side view) VIDEO CONTROL UNIT (X14-400X-XX)

X14 C/3



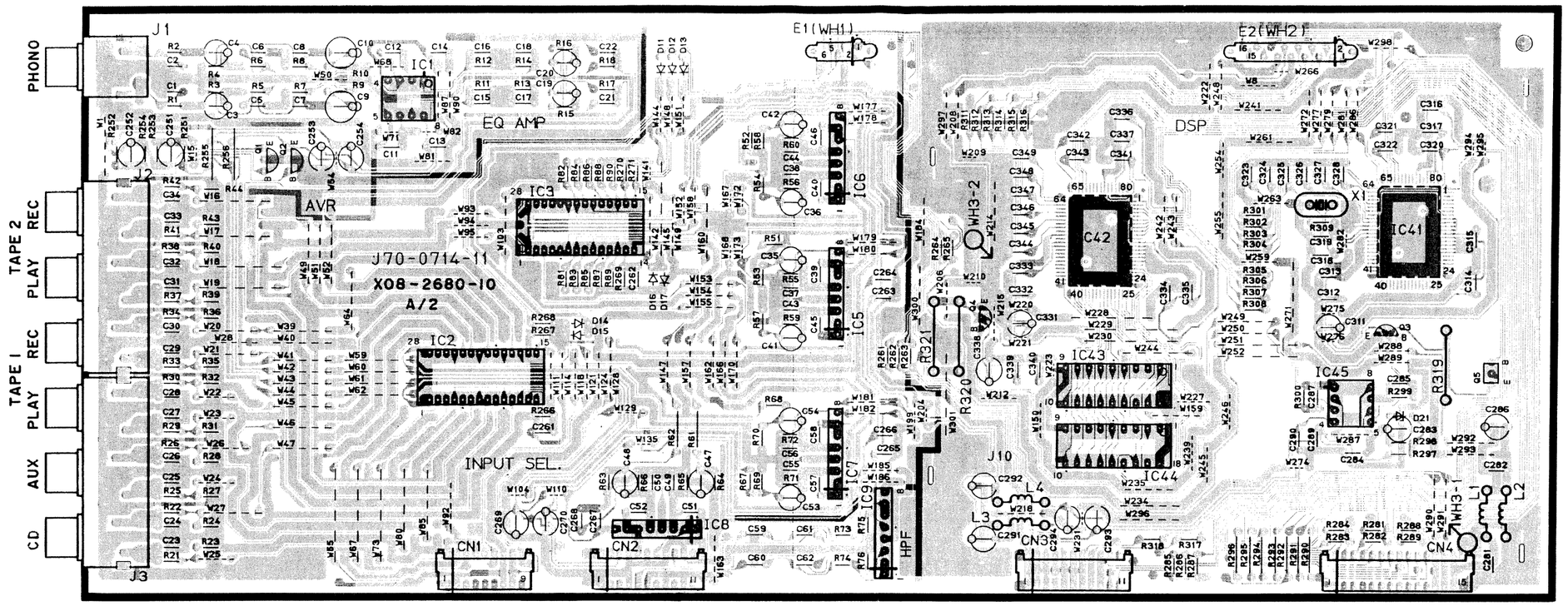
X14 B/3

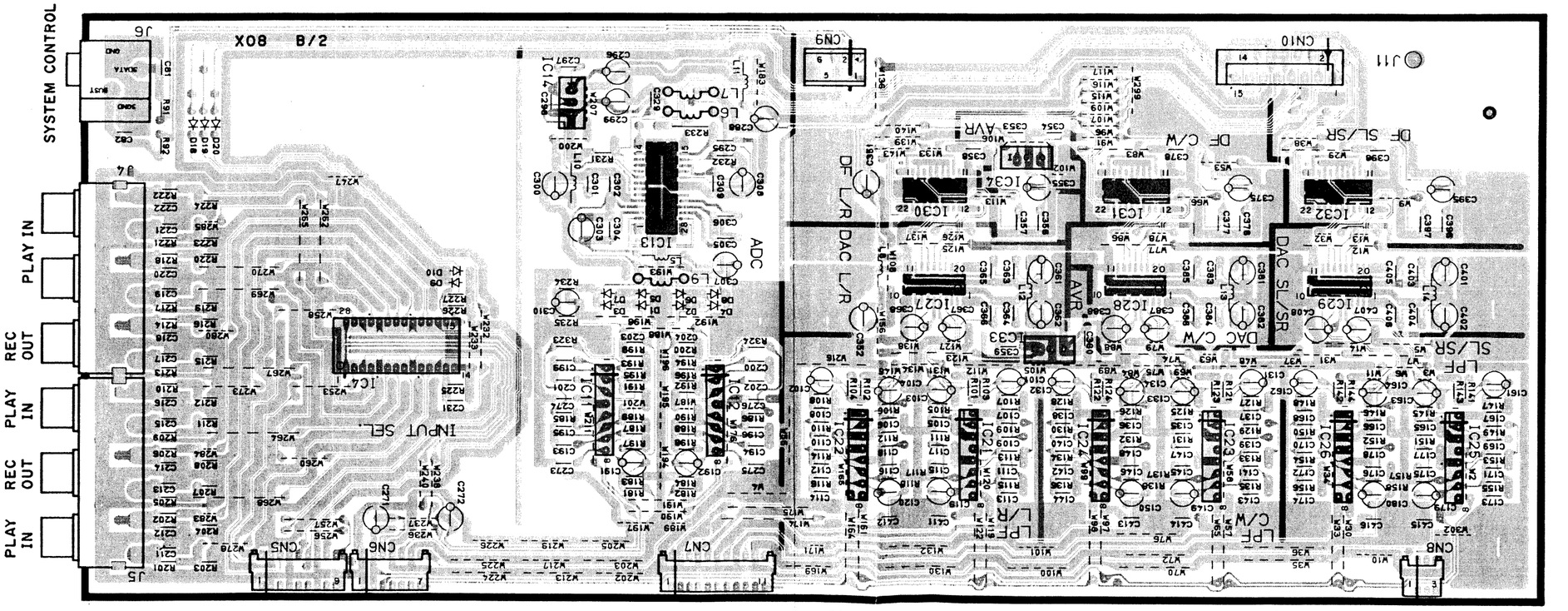




Refer to the schematic diagram for the value of resistors and capacitors.

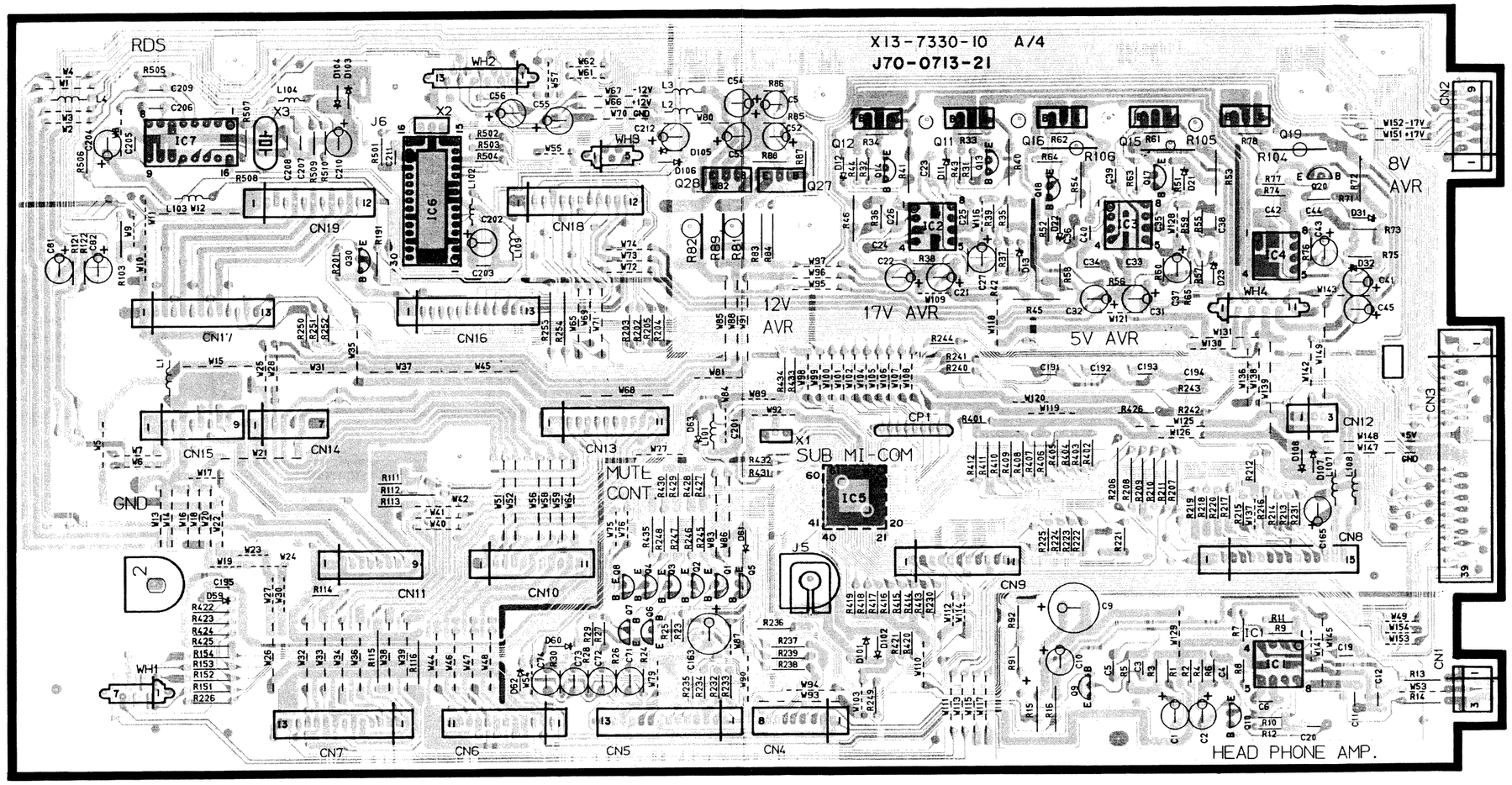
PC BOARD (Component side view) SURROUND UNIT (X08-2680-10)

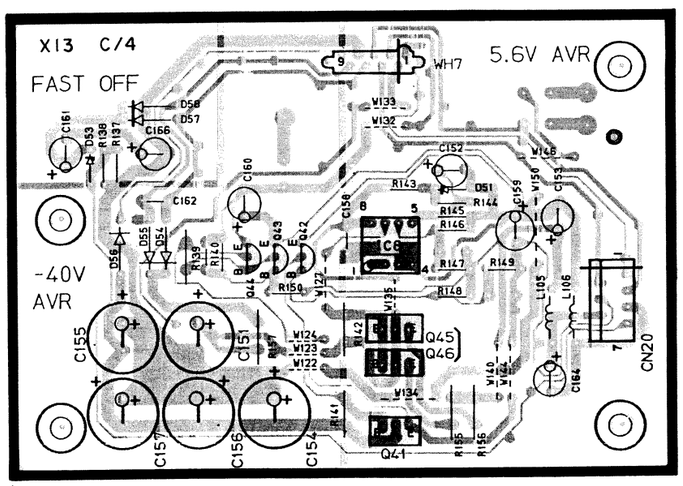


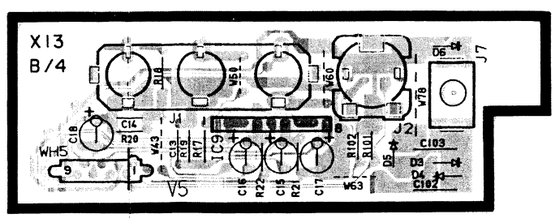


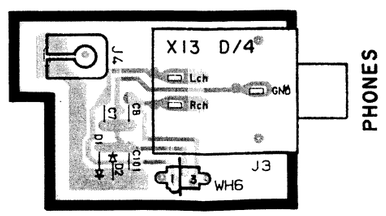
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view) ACCESSORY UNIT (X13-733X-XX)



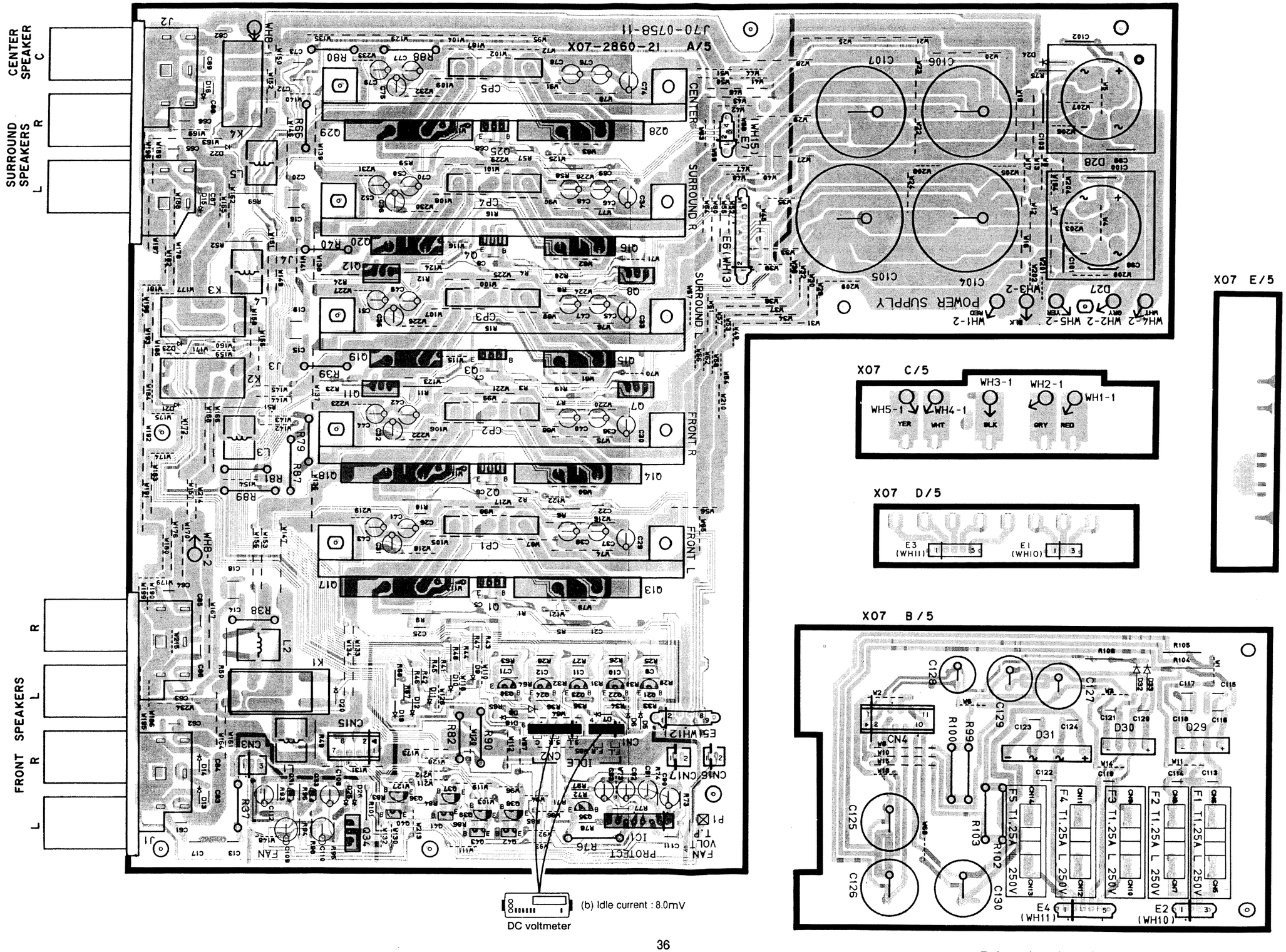






Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view) MAIN AMP UNIT (X07-286X-XX)

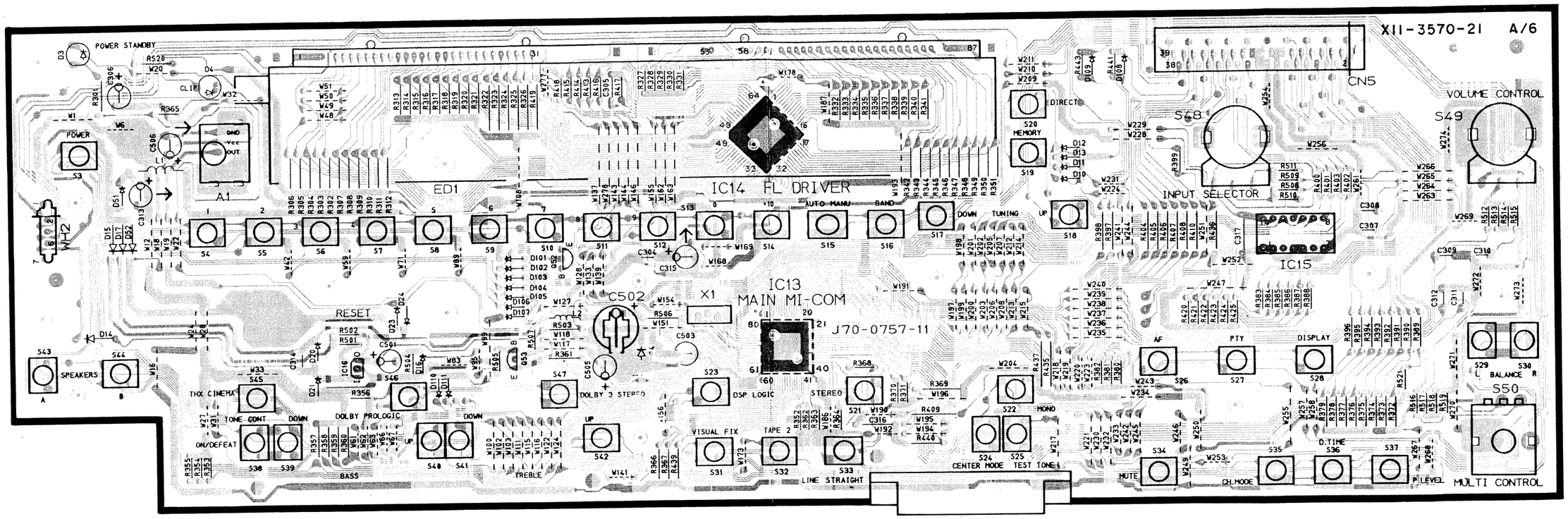


(b) Idle current : 8.0mV

DC voltmeter

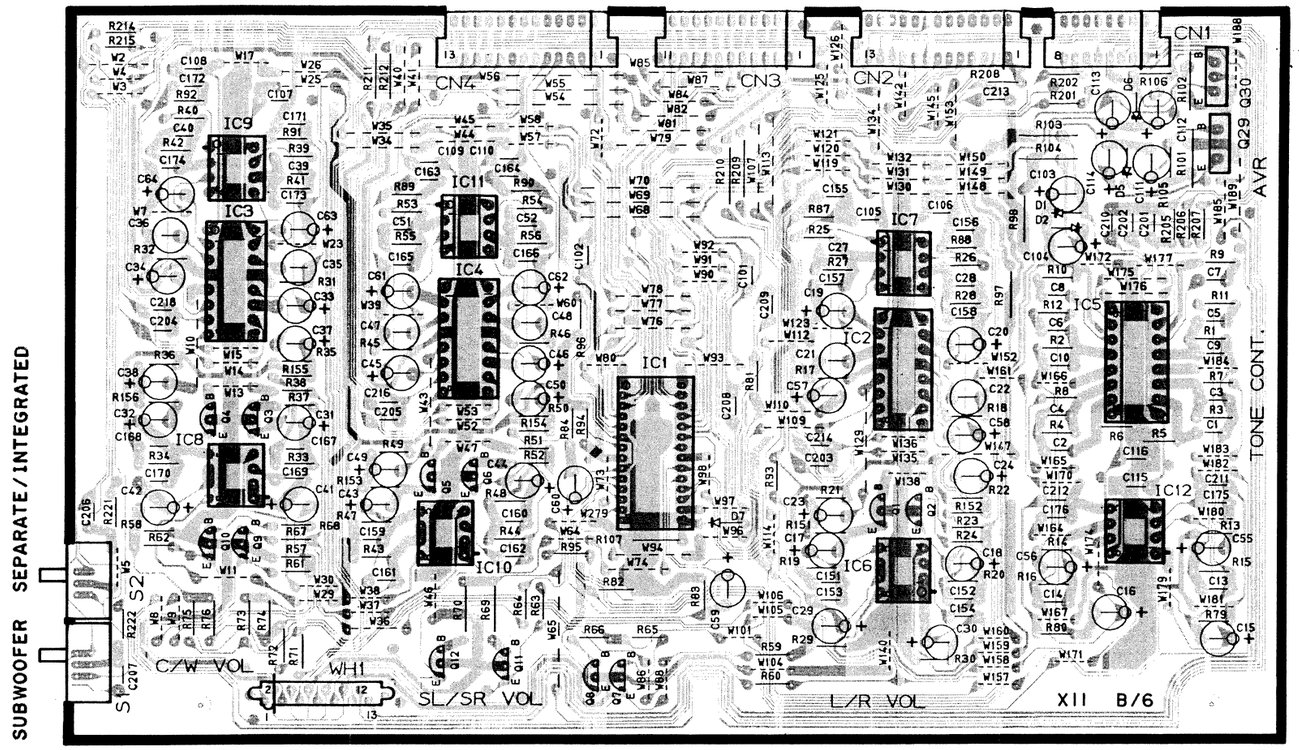
Refer to the schematic diagram for the value of resistors and capacitors.

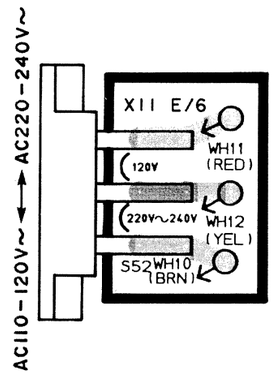
PC BOARD (Component side view) DISPLAY UNIT (X11-357X-XX)

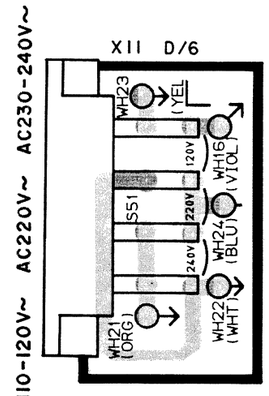


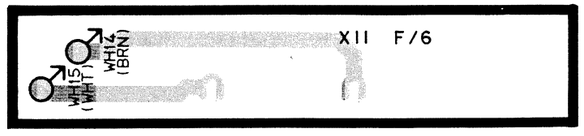
Refer to the schematic diagram for the value of resistors and capacitors.

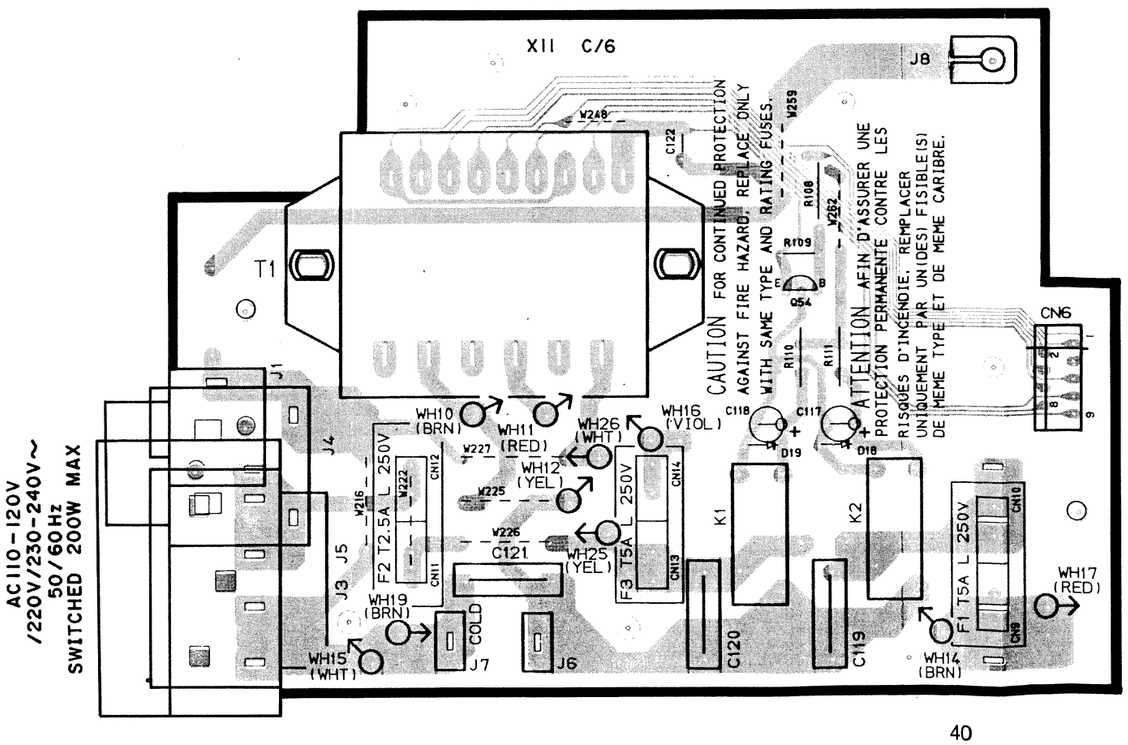
PC BOARD (Component side view) DISPLAY UNIT (X11-357X-XX)





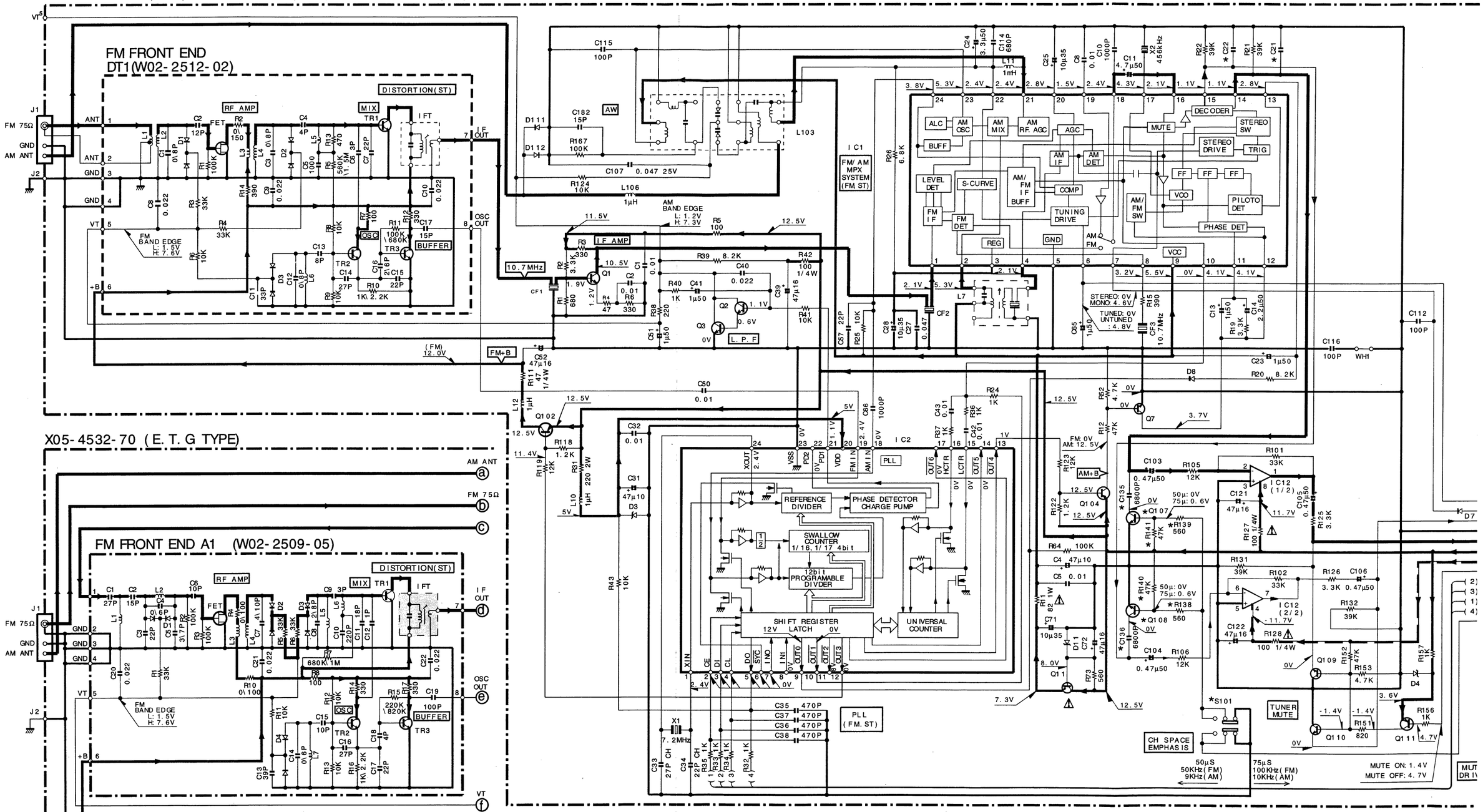




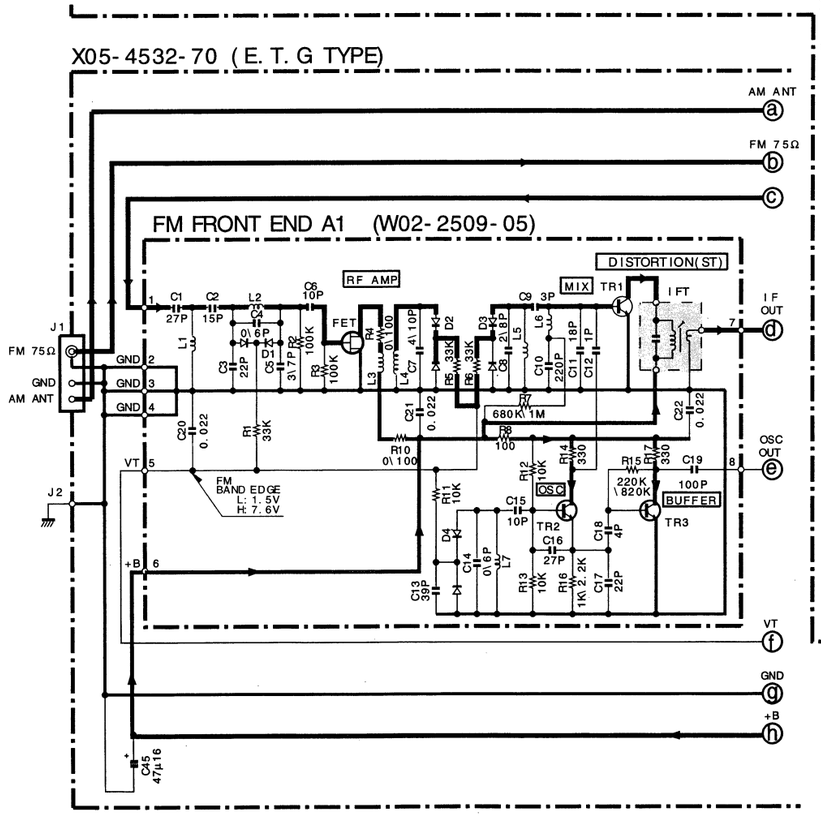


Refer to the schematic diagram for the value of resistors and capacitors.

X05-4460-13(K.P) X05-4460-23(M.Y) X05-4460-73(X)



X05-4532-70 (E.T.G TYPE)



IC1 : LA1831A-KEN
IC2 : LC7218
IC12 : NJM4565D

Q1 : 2SC2714(R, O)
Q2 : 2SC1845(F, E)
Q3 : 2SC1740S(Q, R) or 2SC2785(F, E)
Q7, 107~110 : 2SC2412K
Q11 : 2SD863(E, F)
Q102, 104, 111 : 2SA1037K

D3 : HZS5.1N(B2) or RD5.1ES(B2)
D4 : HZS3.3N(B2) or RD3.3ES(B2)
D7, 111, 112 : MA111
D8 : HSS104 or 1SS133
D11 : HZS8.2N(B2) or RD8.2ES(B2)

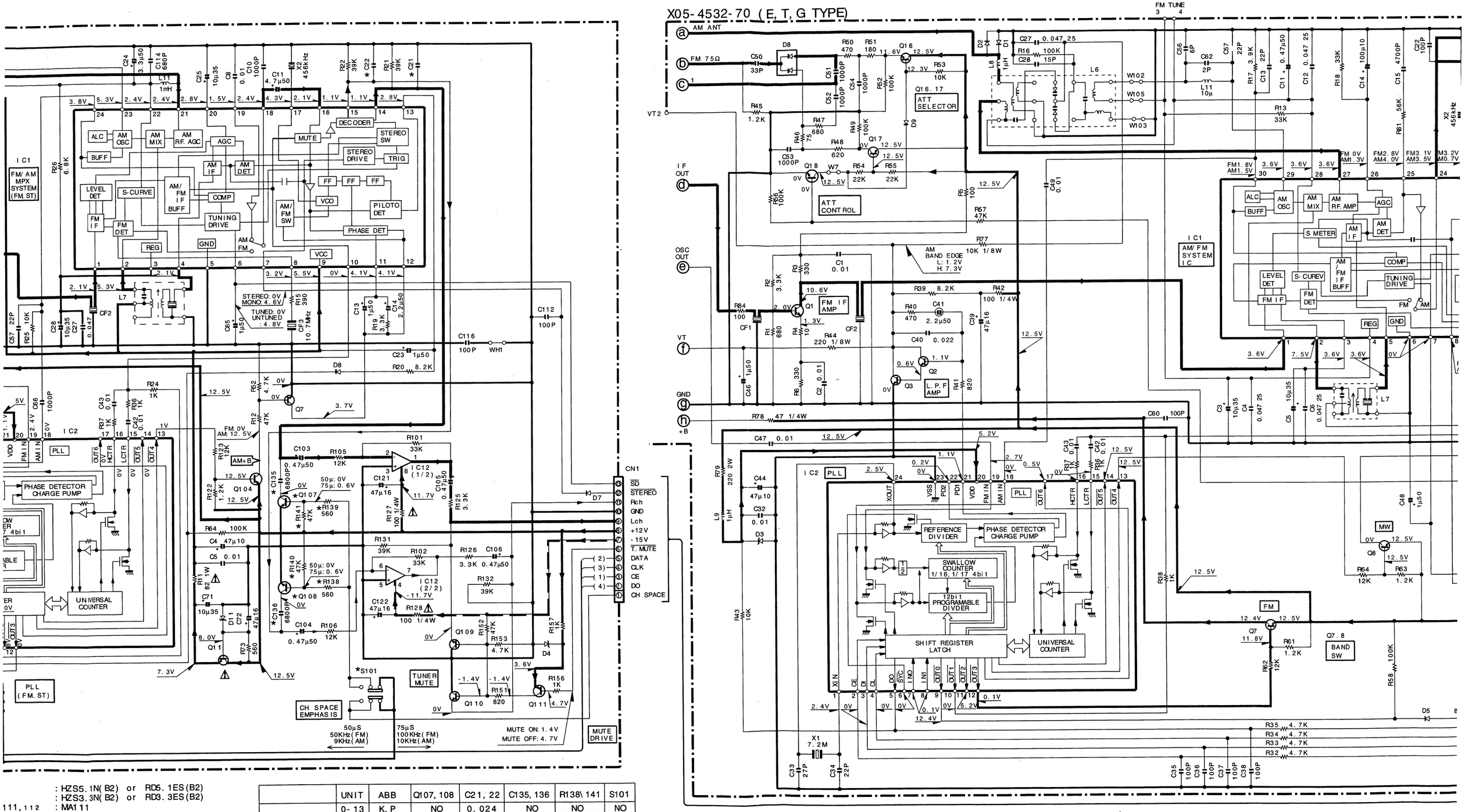
	UNIT	ABB	Q107, 108	C21, 22	C135, 136	R138\141
X05-446X-XX	0-13	K, P	NO	0.024	NO	NO
	0-23	M, Y	YES	0.016	YES	YES
	0-73	X	NO	0.016	NO	NO

●DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

●Les tensions c.c. doivent étre mesurées avec un voltmétre á haute impéance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB é la borne ANT). Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre Parenthéses doivent étre mesurées pendant la réception d'un signal de programme AM (avec une force rte signal de 60 dB á la borne ANT).

● Die
von
Ger
Ante

X05-4532-70 (E, T, G TYPE)



	UNIT	ABB	Q107, 108	C21, 22	C135, 136	R138\141	S101
X05-446X-XX	0-13	K, P	NO	0.024	NO	NO	NO
	0-23	M, Y	YES	0.016	YES	YES	YES
	0-73	X	NO	0.016	NO	NO	NO

: HZS5.1N(B2) or RD5.1ES(B2)
: HZS3.3N(B2) or RD3.3ES(B2)
111, 112 : MA111
: HSS104 or 1SS133
: HZS8.2N(B2) or RD8.2ES(B2)

I C1 : LA1836
I C2 : LC7218
I C3 : M5223P

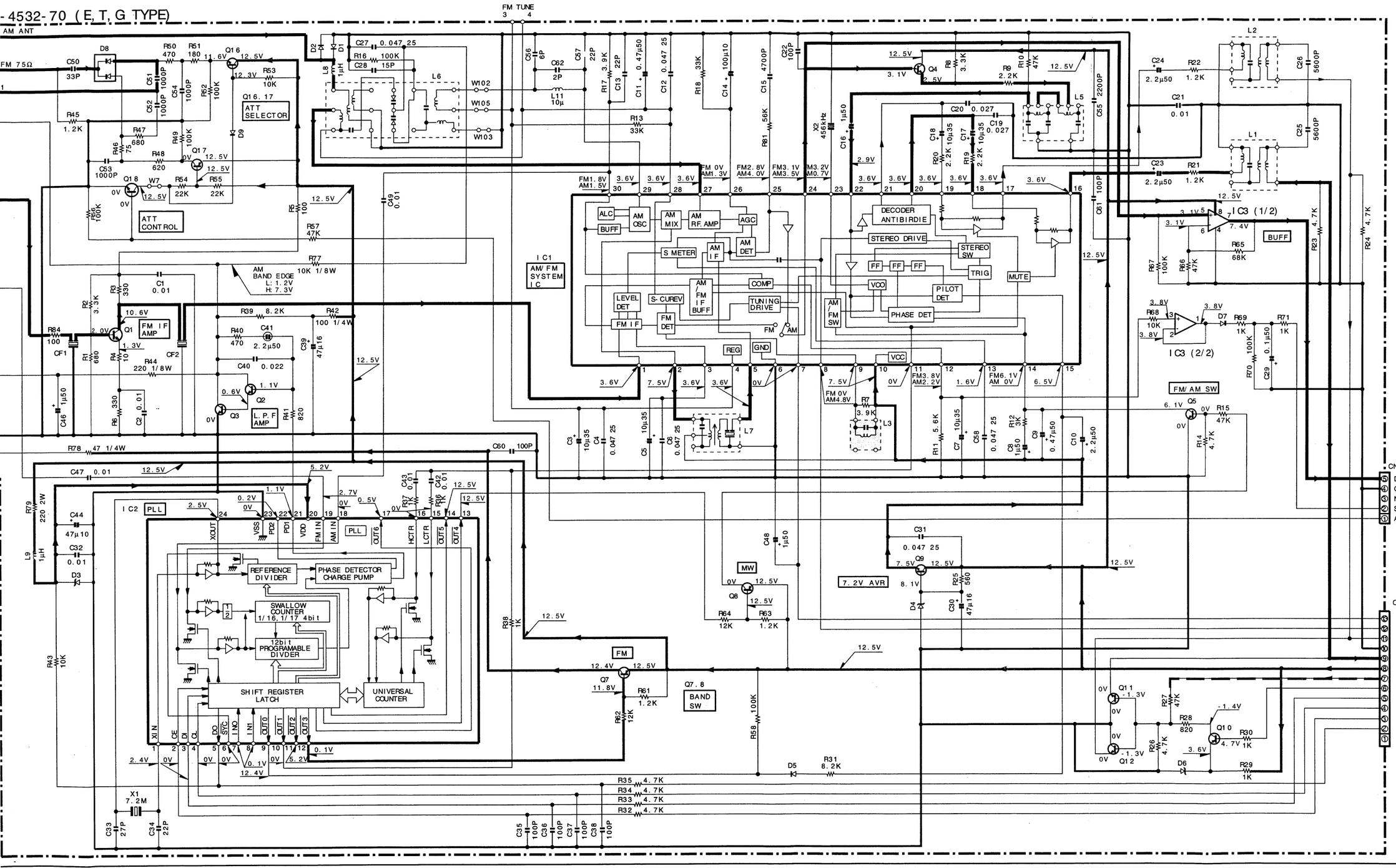
Q1 : 2SC2714(R, O)
Q2 : 2SC1845(F, E)
Q3, 4, 5, 16, 18 : 2SC4081(R, S)
Q7, 8, 10, 17 : 2SA1576(R, S)
Q9 : 2SD863(E, F)
Q11, 12 : 2SD1757K

D1, 2, 5 : 1SS133 or HSS104
D3 : MTZJ5.1(B) or RD5.1ES(B2)
D4 : MTZJ8.2(B) or RD8.2ES(B2)
D6 : MTzJ3.3(B) or RD3.3ES(B2)
D7, 9 : MA111
D8 : 1SS268

doivent étre mesurées avec un voltmétre á haute impéance pendant la réception d'un signal de programme FM (avec une le 60 dB é la borne ANT). Les valeurs peuvent différer légérement du fait des variations inhérentes aux appareils et aux ıesure individuels. Les valeurs entre Parenthéses doivent étre mesurées pendant la réception d'un signal de programme AM te signal de 60 dB á la borne ANT).

● Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-signals(mit einer Feldstärke von 60 dB am antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U.gerinsfügig. Die eingeklammerten Gleichspannungswerte wurden bie Empfang eines MW-signals (mit einer Feldstärke von 60 dB am Antennenanschluß)gemessen.

- 4532- 70 (E, T, G TYPE)



CI	: LA1836	Q1	: 2SC2714(R, O)	D1, 2, 5	: 1SS133 or HSS104
C2	: LC7218	Q2	: 2SC1845(F, E)	D3	: MTZJ5. 1(B) or RD5. 1ES(B2)
C3	: M5223P	Q3, 4, 5, 16, 18	: 2SC4081(R, S)	D4	: MTZJ8. 2(B) or RD8. 2ES(B2)
		Q7, 8, 10, 17	: 2SA1576(R, S)	D6	: MTzJ3. 3(B) or RD3. 3ES(B2)
		Q9	: 2SD863(E, F)	D7, 9	: MA111
		Q11, 12	: 2SD1757K	D8	: 1SS268

:hspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-signals(mit einer Feldstärke nanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder g. Die eingeklammerten Gleichspannungswerte wurden bie Empfang eines MW-signals (mit einer Feldstärke von 60 dBμam iessen.

KR- X1000(1/ 7)

SIGNAL LINE
GND LINE
+B LINE
- B LINE

KR-X1000/(G)
KENWOOD

(X14-400X-XX) (B/3)

VIDEO

J14

PLAY IN
VIDEO 1
REC OUT
PLAY IN
VIDEO 2
REC OUT

R314 75 R301 75 R323 10K R315 75 R302 75 R324 10K

D302 D301 D303 D304 D305 D306 D307 D308

Q302 Q301 Q301~303 MUTE

R305 4.7K R304 4.7K R308 10K R309 10K

IC5 S-COMPOSIT SELECTOR

C344 10µ35 C348 0.01 C346 10µ35 C347 0.01 C340 10µ35 C341 0.01 C349 0.01 C345 10µ35

R363 100 R364 100 R365 100

IC1 VIDEO AMP

C304 10µ35 R310 100 R312 10K R313 10K C305 10µ35 R311 100

C337 0.01

IC10 INPUT SELECTOR Y-SELECTOR

R366 100

Q310~312 VIDEO SIGNAL CLAMP

Q310 Q311 R368 6.2K R370 2.2K R376 100 C301 33µ35 R354 470K R355 100K R369 1.8K C303 11P C336 0.01

IC12 SUPER IMPOSE IC

C310 47µ10 C311 47µ10 C312 47µ10 C313 R334 360 R335 3.3K R336 6.8K R337 3.6K R338 3.6K R339 10K

R318 100 C306 10µ35 R320 10K R321 10K R322 510 R325 560 C343 10P R319 100 C307 10µ35

IC2(1/2) IC2(2/2) VIDEO AMP

C352 0.01 C353 0.01 C355 0.01 C354 0.01

IC11 INPUT SELECTOR C-SELECTOR

C338 0.01

R371 470K R372 22K R373 22K R375 100 R374 2.2K C302 0.01 C339 0.01

Q312

C351 10µ35 C350 10µ35

C342 22P R333 220 C317 100P R348 10K R349 220 C318 100P R347 10K R346 220 C319 100P R345 10K R344 220 C320 100P R343 10K R342 220 C315 0.01 C316 10µ35

L301 22µH R341 3.3K C321 33P C322 C330 10µ35 C331 10µ35

J15

VIDEO 3 PLAY IN
VIDEO 4 PLAY IN
MONITOR OUT

R316 75 R317 75

D309 D310 D311 D312 D313 D314

R307 10K R306 4.7K R303 75 Q303 Q304~309 MUTE CONTROL

Q304 Q305 Q306 Q307 Q308 Q309

S-VIDEO

(X14-) (C/3)

J13

PLAY IN
VIDEO 1
REC OUT
PLAY IN
VIDEO 2
REC OUT

R381 75 R382 75 R391 75 R392 75 R383 75 R384 75 R395 75 R396 75

D325 D326 D327 D328 D321 D322 D323 D324 D333 D334 D335 D336 D329 D330 D331 D332

C393 47P C392 47P C394 47P C395 47P R394 10K R393 10K R398 10K R397 10K

J12

VIDEO 3 PLAY IN
VIDEO 4 PLAY IN

R385 75 R386 75 R387 75 R388 75

D337 D338 D339 D340 D341 D342 D343 D344

J11

MONITOR OUT

R389 75 R390 75

Q321 Q322 Q323 Q324 Q321,322 MUTE Q323,324 MUTE CONTROL

R405 4.7K R406 4.7K R407 10K

D345 D346 D348 D347

IC6 S-COMPOSIT SELECTOR

C374 10µ35 C385 0.01 C382 47P R399 10K C375 10µ35 C384 0.01 BUFFER R423 10 Q325

R408 100 R409 100 R410 100

IC7 S-COMPOSIT SELECTOR

C376 10µ35 C386 0.01 C383 47P R401 10K C377 10µ35 C387 0.01 BUFFER R424 10 Q326

R411 100 R412 100 R413 100

R400 2.2K C368 33µ35 R402 2.2K C369 0.01

6dB VIDEO AMP

R415 100 R419 100 R420 100 R414 100

IC8

C371 10µ35 C388 0.01 R403 100 C379 10µ35 C381 0.01 C370 10µ35 C389 0.01

R416 100 R421 100 R422 100 R417 100

IC9

C372 10µ35 C391 0.01 R404 100 C373 10µ35 C390 0.01

6dB VIDEO AMP

IC3 VIDEO AMP

C380 0.01 C378 10µ35

R326 100 C309 0.01 R329 10K R327 100 C308 33µ35 R328 10K

CN14

1 R1 SW
2 R1 MUTE
3 R2 SW
4 R2 MUTE
5 V-A
6 V-C
7 V-B
8 S-C SW
9 MO MUTE
10 +5V
11 GND
12 -5V

CN13

1 GND
2 Y
3 GND FRONT
4 C
5 GND
6 C
7 GND MO OUT
8 Y
9 GND
10 C
11 GND MO IN
12 Y

IC13 SYNC SEPARATOR

C323 10µ35 C324 0.01 C325 C326 C327 C328 220P R350 2.7K R351 2.2K X2 R352 R353 2.2K C329 0.01 R361 390 C332 10µ50 R362 100K C333 560P R360 10K C334 470P R359 10K R358 10K R357 100K C335 4.7µ50 R356 22K

IC1,3 : MC14576CP
IC2 : MC14577CP
IC5~7 : TC4051BP
IC8,9 : NJM2279D
IC10,11 : TC4053BP
IC12 : µPD6452GT-603
IC13 : MM1067XD

Q1~4,13,14,21~24,33,34, 51,52,57,75,76 : 2SC1845(F,E)
Q9~12,29~32,55,56 : 2SA992(F,E)
Q15,16,35,36,58,310,325, 226 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q71,73,77 : 2SC3944(Q,R)
Q72,74 : 2SA1535(Q,R)
Q301~303,321,322 : 2SD1302(S,T)
Q304~306,324 : UN4112 or DTA124ES
Q307~309,323 : UN4219 or DTC113ZS
Q311,312 : 2SA933S(Q,R) or 2SA1175(F,E)

D1~3,11~13,21,43, 301~314,321~348 : 1SS133 or HSS104
D5,15,46 : RD5.1JS(B2) or HZS5.1S(B2)
D31~34 : RD16ES(B2) or HZS16N(B2)
D35~40 : RD15ES(B2) or HZS15N(B2)
D41,42,45 : RD11ES(B2) or HZS11N(B2)
D44 : 1SS131 or HSS104A

DESTINATION		UNIT NO	C313	C325	C326	C327	R352	X1	X2
COUNTRY	ABB.								
U.S.A. CANADA PX GENERAL MARKET AUSTRALIA	K P Y M X	X14-4000-10	18P	0.022	2.2µ50	3300P	390	L77-1182-05 14.31818MHz	L78-0272-05 503.5KHz
U.K. EUROPE GERMANY	T E G	X14-4002-71	15P	0.047	1µ50	4700P	220	L77-2107-05 17.734475MHz	L78-0300-05 500KHz

(X14-) (A/3)

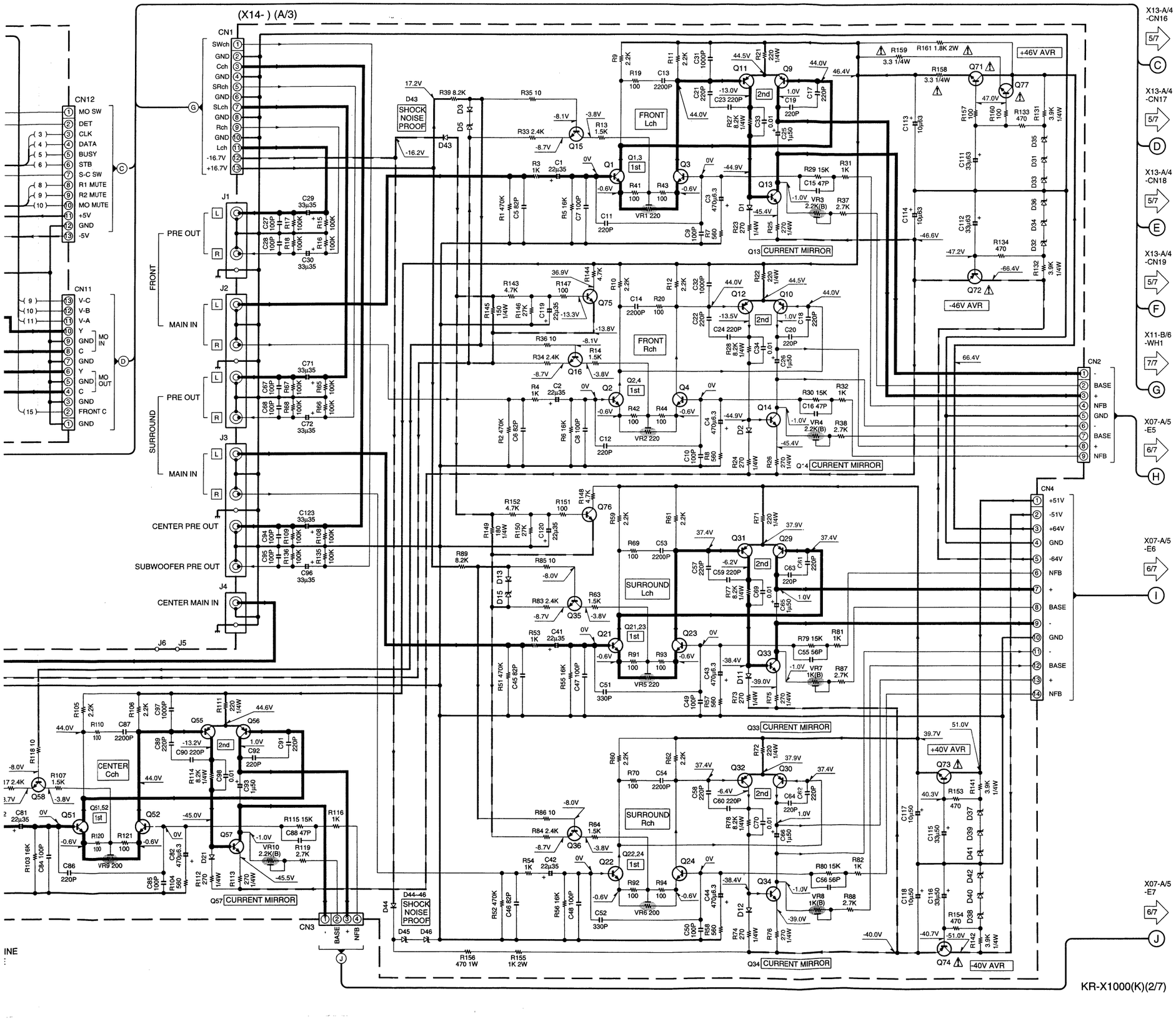
IC1,3 : MC14576CP
IC2 : MC14577CP
IC5~7 : TC4051BP
IC8,9 : NJM2279D
IC10,11 : TC4053BP
IC12 : μPD6452GT-603
IC13 : MM1067XD

Q1~4,13,14,21~24,33,34, 51,52,57,75,76 : 2SC1845(F,E)
Q9~12,29~32,55,56 : 2SA992(F,E)
Q15,16,35,36,58,310,325, 226 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q71,73,77 : 2SC3944(Q,R)
Q72,74 : 2SA1535(Q,R)
Q301~303,321,322 : 2SD1302(S,T)
Q304~306,324 : UN4112 or DTA124ES
Q307~309,323 : UN4219 or DTC113ZS
Q311,312 : 2SA933S(Q,R) or 2SA1175(F,E)

D1~3,11~13,21,43, 301~314,321~348 : 1SS133 or HSS104
D5,15,46 : RD5.1JS(B2) or HZS5.1S(B2)
D31~34 : RD16ES(B2) or HZS16N(B2)
D35~40 : RD15ES(B2) or HZS15N(B2)
D41,42,45 : RD11ES(B2) or HZS11N(B2)
D44 : 1SS131 or HSS104A

DESTINATION / COUNTRY	ABB.	UNIT NO	C313	C325	C326	C327	R352	X1	X2
U.S.A. CANADA PX GENERAL MARKET AUSTRALIA	K P Y M X	X14-4000-10	18P	0.022	2.2μ50	3300P	390	L77-1182-05 14.31818MHz	L78-0272-05 503.5KHz
U.K. EUROPE GERMANY	T E G	X14-4002-71	15P	0.047	1μ50	4700P	220	L77-2107-05 17.734475MHz	L78-0300-05 500KHz

SIGNAL LINE
GND LINE
+B LINE
-B LINE



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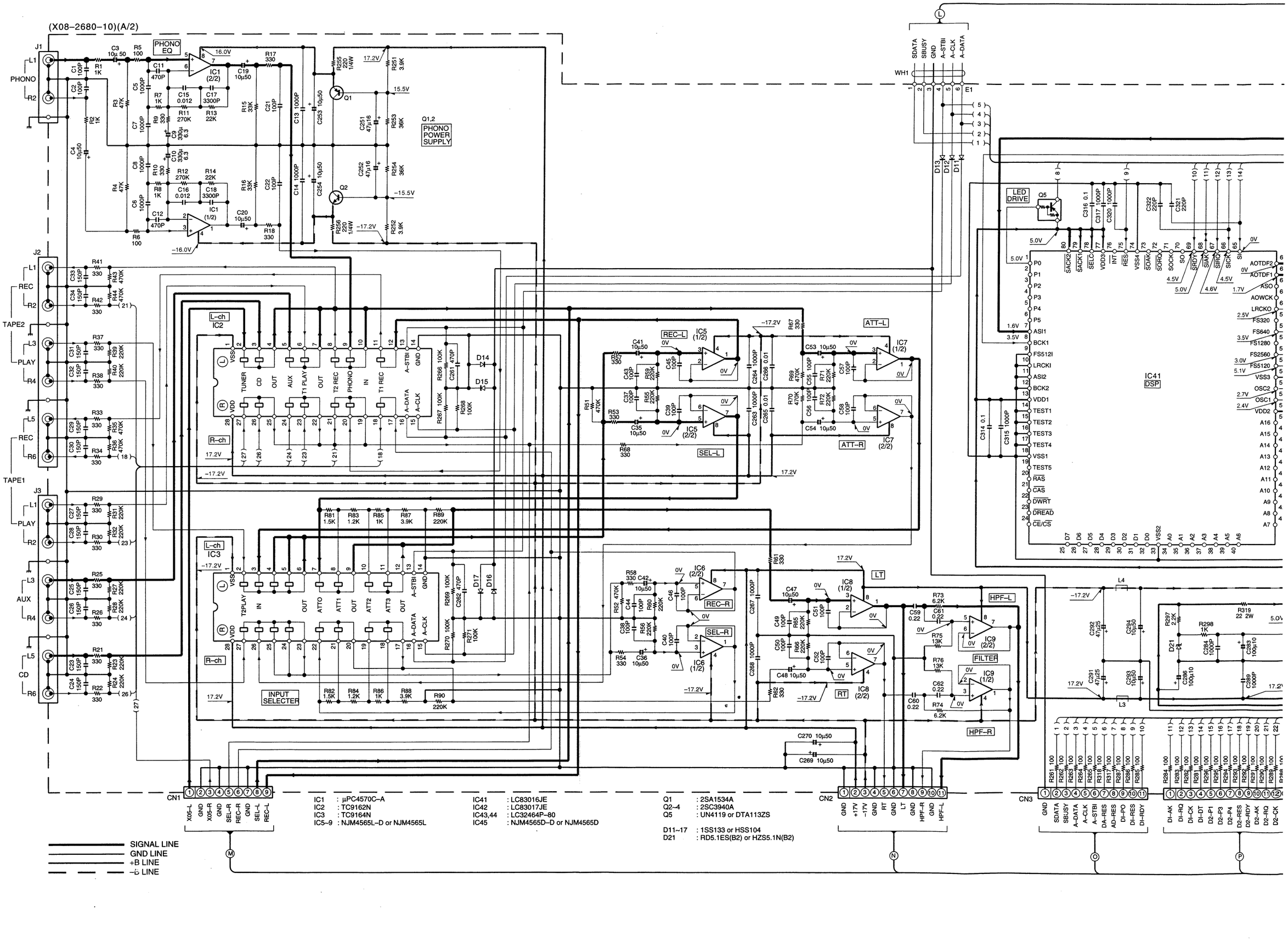
- Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KR-X1000(K)(2/7)

KR-X1000/(G)

KENWOOD

(X08-2680-10)(A/2)

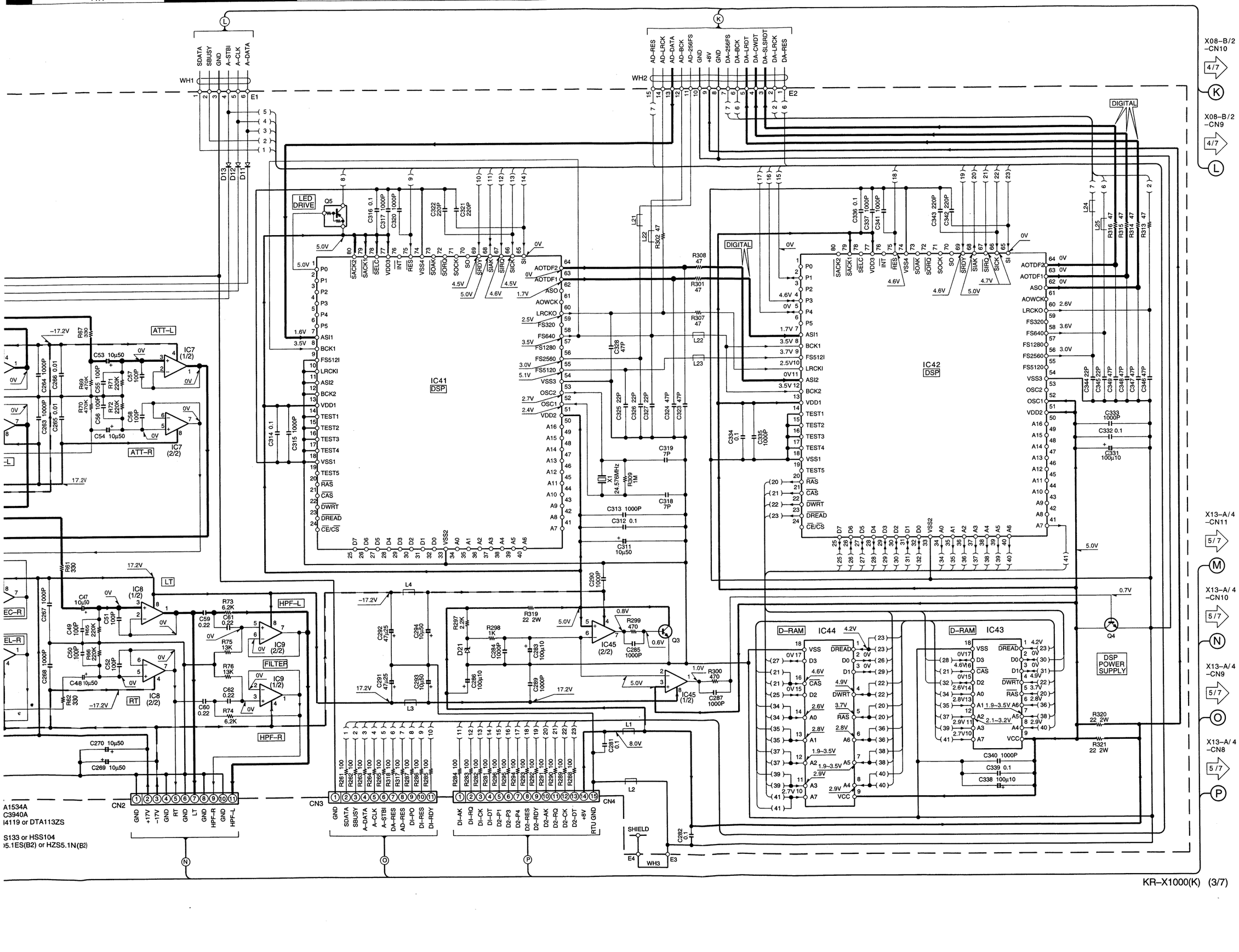


IC1 : μPC4570C-A
IC2 : TC9162N
IC3 : TC9164N
IC5~9 : NJM4565L-D or NJM4565L

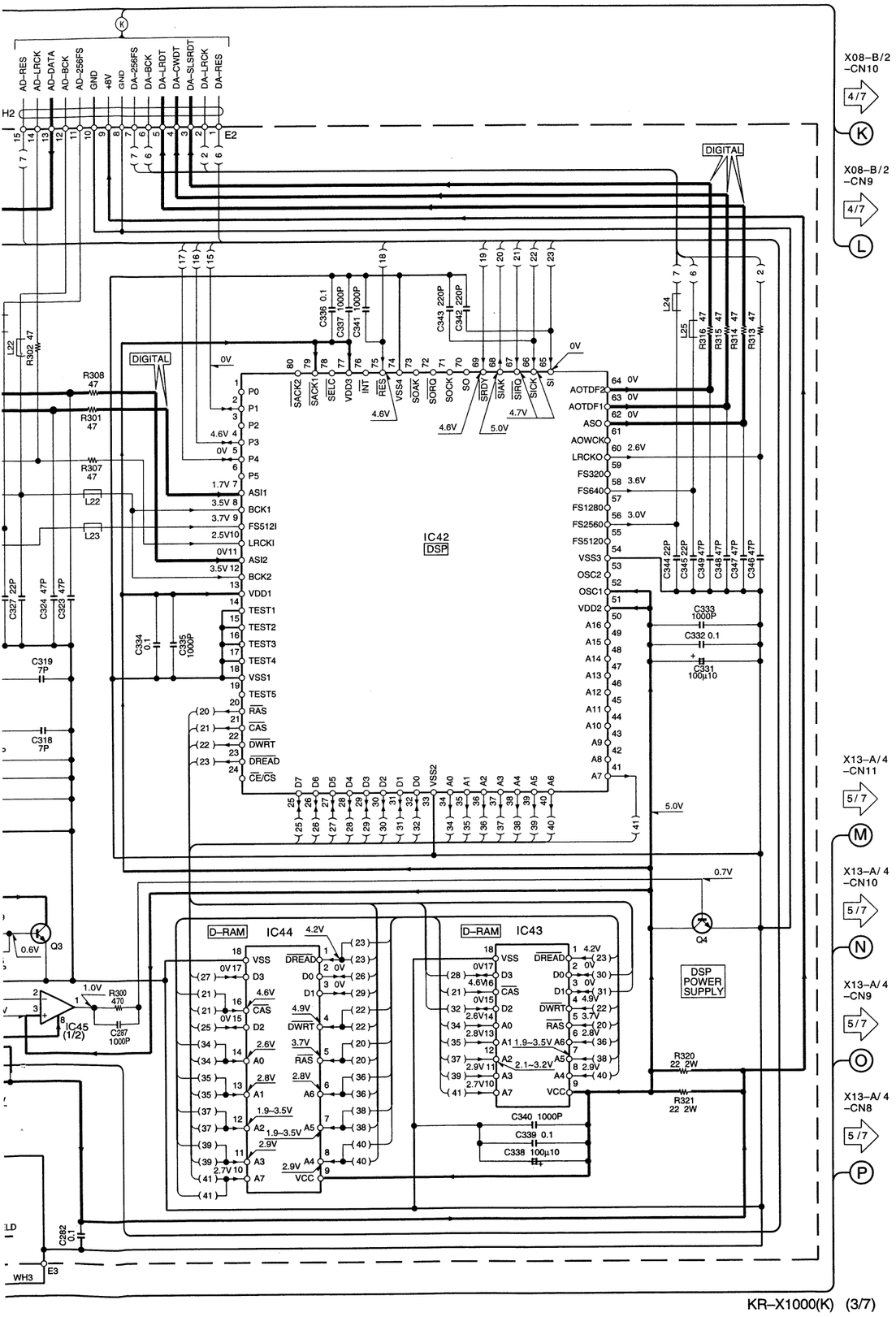
IC41 : LC83016JE
IC42 : LC83017JE
IC43,44 : LC32464P-80
IC45 : NJM4565D-D or NJM4565D

Q1 : 2SA1534A
Q2~4 : 2SC3940A
Q5 : UN4119 or DTA113ZS

D11~17 : 1SS133 or HSS104
D21 : RD5.1ES(B2) or HZS5.1N(B2)

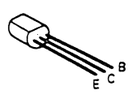

WH1
SDATA
SBUSY
GND
A-STBI
A-CLK
A-DATA
E1
WH2
AD-RES
AD-LRCK
AD-DATA
AD-BCK
AD-256FS
GND
+8V
GND
DA-256FS
DA-BCK
DA-LRDT
DA-CWDT
DA-SLSRDT
DA-LRCK
DA-RES
E2
X08-B/2 -CN10
4/7
X08-B/2 -CN9
4/7
DIGITAL
LED DRIVE
Q5
IC41 DSP
IC42 DSP
IC45 (2/2)
IC45 (1/2)
IC7 (1/2)
IC7 (2/2)
IC8 (1/2)
IC8 (2/2)
IC9 (2/2)
IC9 (1/2)
ATT-L
ATT-R
LT
RT
HPF-L
HPF-R
FILTER
D-RAM IC44
D-RAM IC43
DSP POWER SUPPLY
X13-A/4 -CN11
5/7
X13-A/4 -CN10
5/7
X13-A/4 -CN9
5/7
X13-A/4 -CN8
5/7
CN2
CN3
CN4
SHIELD
WH3
E3
E4
X1 24.576MHz
Q4
Q3

KR-X1000(K) (3/7)

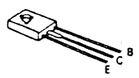


KR–X1000(K) (3/7)

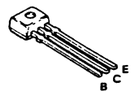
2SA1534A
2SA954
2SA992
2SC1845
2SC2003
2SC2878
2SC3940A
2SD1302
2SD863



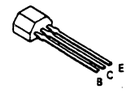
2SA1110



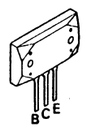
2SA1175
2SC2785
PAGE26
05/11/95
KKRX1000KZ
∂fi≤π≤Ωfi



DTA124ES
DTC124ES
DTC143TS
UN4112
2SA933S
2SC1740S



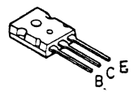
2SB1570M*5
2SD2401M*5



2SA1037K
2SA1576
2SC2412K
2SC2714
2SC4081
2SD1757K

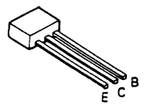
2SC4137

2SB1163
2SD1718



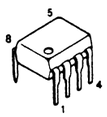
2SA1535
2SA1535A
2SB1370
2SC3944
2SC3944A
2SD2061

UN4212
UN4216
UN4219



2SB1375
2SD2012

NJM4558D



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KR-X1000/(G)
KENWOOD

(X08–2680–10)(B/2)

X08–A/2 –E2 3/7 (K)

X08–A/2 –E1 3/7 (L)

CN9 SDATA SBUSY GND A-STBI A-CLK A-DATA

CN10 AD-RES AD-LRCK AD-DATA AD-BCK AD-256FS GND +8V GND DA-256FS DA-BCK DA-LRDT DA-CWDT DA-SLSRDT DA-LRCK DA-RES

SYSTEM CONTROL

J6

R91 330 R92 330 C82 220P C81 220P

A/D +5V POWER SUPPLY

IC14 GND IN OUT

L11 47µH L10 47µH L9

A/D CONVERTER

IC11 (1/2) IC11 (2/2) IC12 (1/2) IC12 (2/2) IC13

D1 D2 D3 D4 D5 D6 D7 D8

L5 100µH L6 L7

D/A CONVERTER IC27

IC30 DIGITAL FILTER

D/F +5V POWER SUPPLY

IC34 GND OUT IN

IC33 GND IN OUT

D/A +5V POWER SUPPLY

D/A CONVERTER IC28

IC31 DIGITAL FILTER

D/A CONVERTER IC29

IC32 DIGITAL FILTER

DIGITAL

J4 VIDEO4 AUDIO PLAY IN L R

J5 VIDEO3 AUDIO PLAY IN L R

REC OUT L R

VIDEO2 AUDIO PLAY IN L R

REC OUT L R

VIDEO1 AUDIO PLAY IN L R

INPUT SELECTOR IC4

Rch Lch

D18 D19 D9 D10 D20

CN5 V5-L GND V5-R GND SEL-R REC-R GND SEL-L REC-L

CN6 GND +17V –17V GND LT GND RT

CN8 NC NC NC

IC4 : TC9163N
IC11,12,21~26 : NJM4565L–D or NJM4565L
IC13 : AK5340–VS
IC14,33,34 : TA7805S or µPC7805AHF
IC27~29 : PCM69AU
IC30~32 : SM5841HS

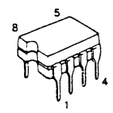
D1~10,18~20 : 1SS133 or HSS104

SIGNAL LINE
GND LINE
+B LINE
–B LINE

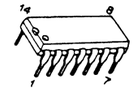
(X08-2680-10)(B/2)

KR-X1000(K) (4/7)

NJM4565D
NJM4565D-D

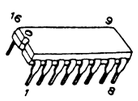


NJM2279D

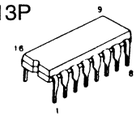


TC74HC

TC9184P

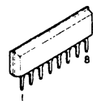


TC4051BP
TC4053BP
TC9213P

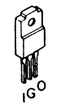


SAA6579

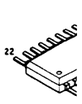
UPC1237HA



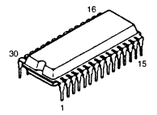
UPC7805AHF



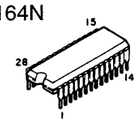
SM5841H



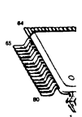
LA1836



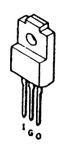
TC9162N
TC9163N
TC9164N



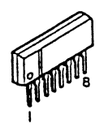
LC83016
LC83017



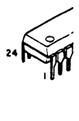
TA7805S

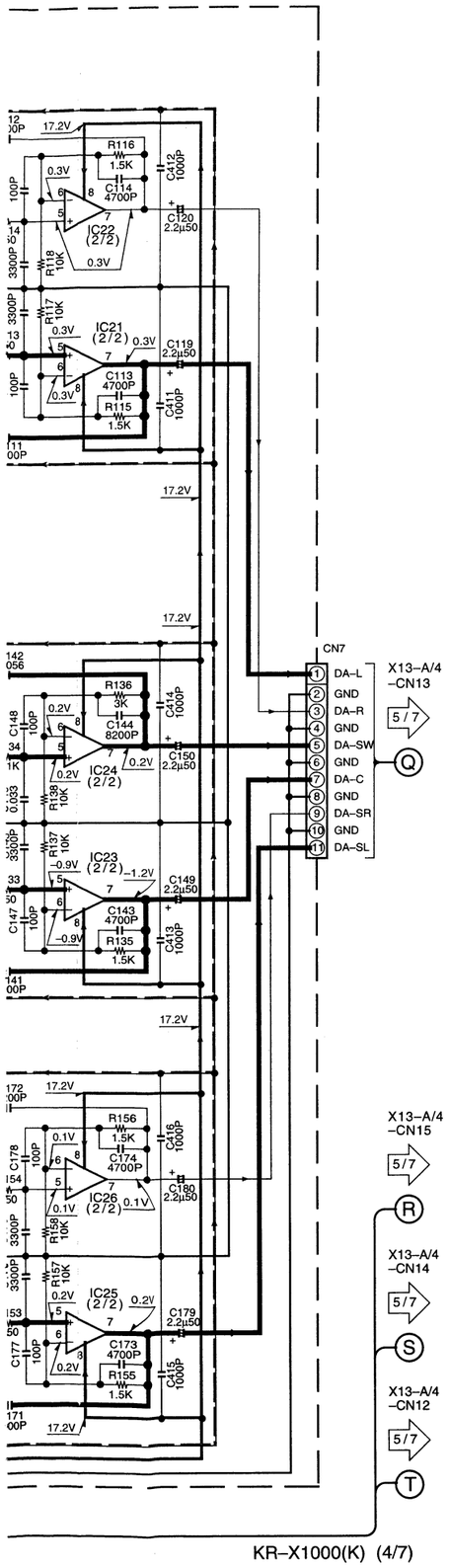


NJM4565L
NJM4565L-D



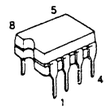
LC7218



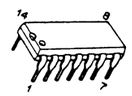


KR–X1000(K) (4/7)

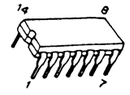
NJM4565D
NJM4565D-D



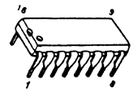
NJM2279D



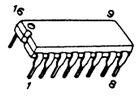
TC74HC08AP



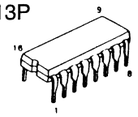
MM1067XD



TC9184P



TC4051BP
TC4053BP
TC9213P



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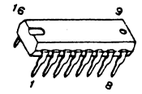
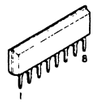


MC14576CP
MC14577CP
M5223P
NJM4580L
UPC4570C-A

UPC1237HA



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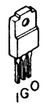
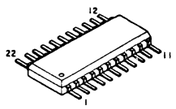
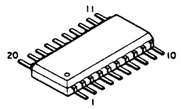


SM5841HS



PCM69AU



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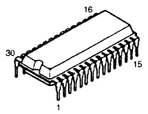
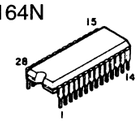
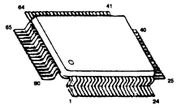


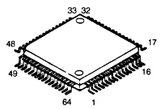
TC9162N
TC9163N
TC9164N



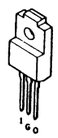
LC83016JE
LC83017JE



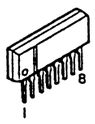
LC75711E



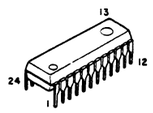
TA7805S



NJM4565L
NJM4565L-D



LC7218



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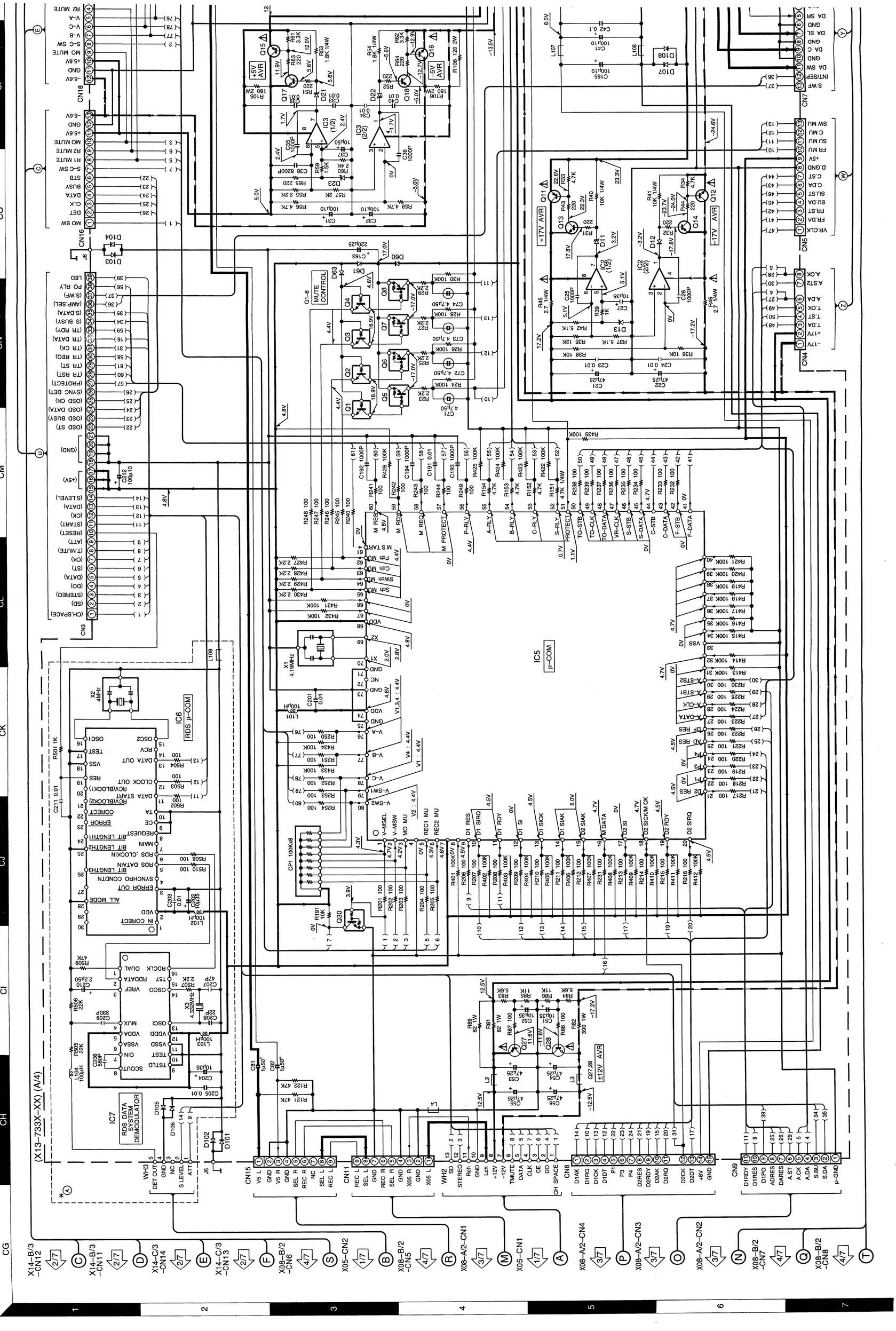
KR-X1000/(G)

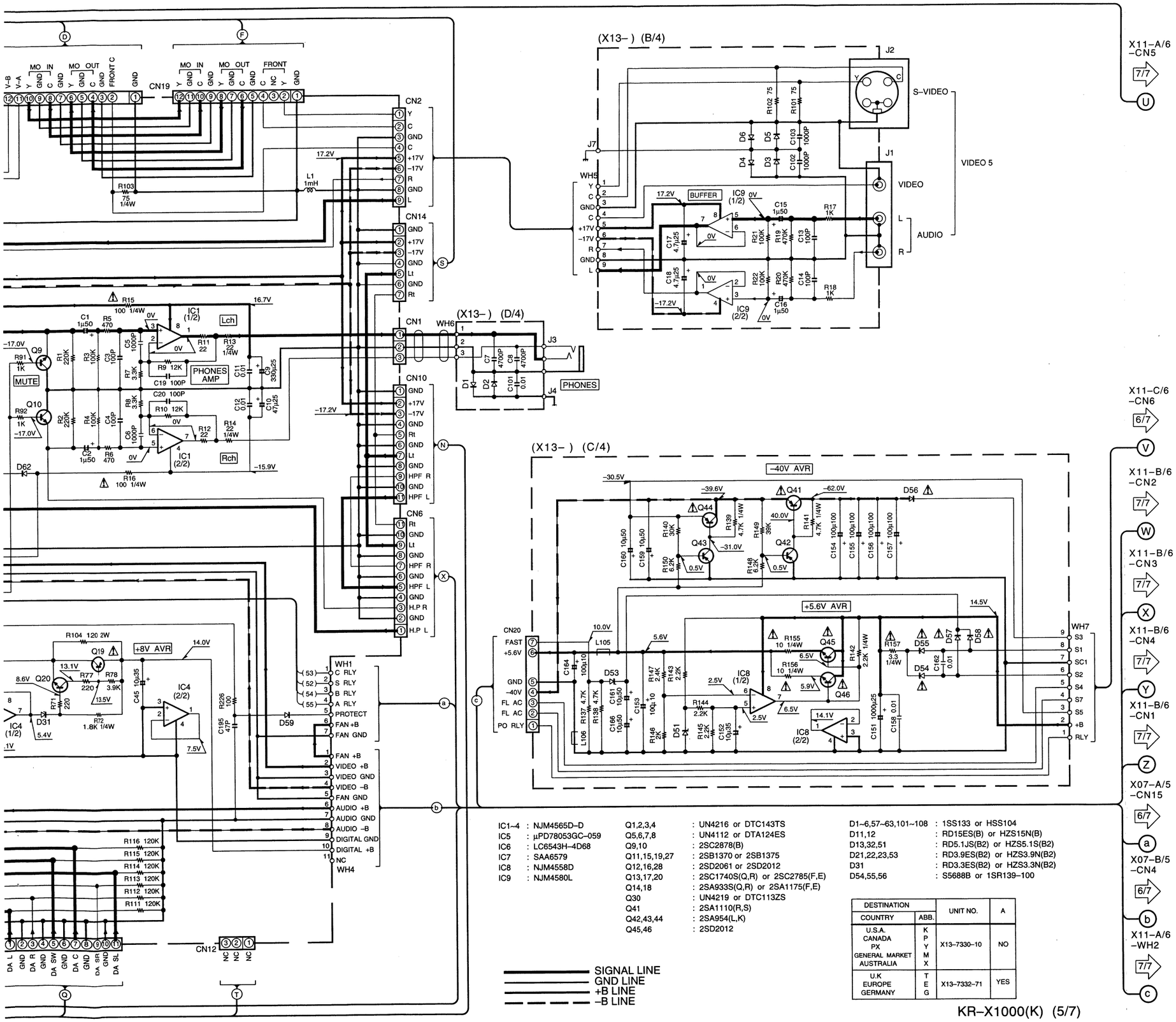
KENWOOD


(X13-733X-XX) (A/4)
IC5 μ-COM
IC6 RDS μ-COM
IC7 RDS DATA SYSTEM DEMODULATOR
Q1-8 MUTE CONTROL
+17V AVR
-17V AVR
+12V AVR
-12V AVR
+5V AVR
-5V AVR
X1 4.19MHz
X2 4MHz
X3 4.332MHz
CN3
CN4
CN5
CN7
CN15
CN16
CN18
WH2
WH3
CN8
CN9
CN11
CN12
X14-B/3 -CN12
X14-B/3 -CN11
X14-C/3 -CN14
X14-C/3 -CN13
X08-B/2 -CN6
X05-CN2
X08-B/2 -CN5
X08-A/2-CN1
X05-CN1
X08-A/2-CN4
X08-A/2-CN3
X08-A/2-CN2
X08-B/2 -CN7
X08-B/2 -CN8
CP
CO
CN
CM
CL
CK
CJ
CI
CH
CG

IC1~4 : NJM4565D–D
IC5 : μPD78053GC–059
IC6 : LC6543H–4D68
IC7 : SAA6579
IC8 : NJM4558D
IC9 : NJM4580L

Q1,2,3,4
Q5,6,7,8
Q9,10
Q11,15,19,27
Q12,16,28
Q13,17,20
Q14,18
Q30
Q41
Q42,43,44
Q45,46

SIGNAL LINE
GND LINE
+B LINE
–B LINE



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IC1~4 : NJM4565D–D
IC5 : μPD78053GC–059
IC6 : LC6543H–4D68
IC7 : SAA6579
IC8 : NJM4558D
IC9 : NJM4580L

Q1,2,3,4 : UN4216 or DTC143TS
Q5,6,7,8 : UN4112 or DTA124ES
Q9,10 : 2SC2878(B)
Q11,15,19,27 : 2SB1370 or 2SB1375
Q12,16,28 : 2SD2061 or 2SD2012
Q13,17,20 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q14,18 : 2SA933S(Q,R) or 2SA1175(F,E)
Q30 : UN4219 or DTC113ZS
Q41 : 2SA1110(R,S)
Q42,43,44 : 2SA954(L,K)
Q45,46 : 2SD2012

D1~6,57~63,101~108 : 1SS133 or HSS104
D11,12 : RD15ES(B) or HZS15N(B)
D13,32,51 : RD5.1JS(B2) or HZS5.1S(B2)
D21,22,23,53 : RD3.9ES(B2) or HZS3.9N(B2)
D31 : RD3.3ES(B2) or HZS3.3N(B2)
D54,55,56 : S5688B or 1SR139–100

DESTINATION		UNIT NO.	A
COUNTRY	ABB.		
U.S.A. CANADA PX GENERAL MARKET AUSTRALIA	K P Y M X	X13–7330–10	NO
U.K EUROPE GERMANY	T E G	X13–7332–71	YES

SIGNAL LINE
GND LINE
+B LINE
–B LINE

KR–X1000(K) (5/7)

KR-X1000/(G)
KENWOOD

(X11-357X-XX)

DESTINATION		UNIT No.	C118, 120	R110	R112	J1	J2	J3	J4	J5	K1	K2	T1	CN9,10	CN11, 12	CN13, 14	F1
COUNTRY	ABB.																
U.S.A.	K	X11-3570-10	NO	NO	YES	NO	YES	NO	NO	NO	NO	YES	S76-0002-05	L07-1937-05	J13-0041-05	NO	NO	12A 250V
CANADA	P	X11-3571-01	YES	YES	YES	NO	YES	NO	NO	NO	NO	YES	S76-0009-05	L07-1937-05	J13-0075-05	NO	YES	6A 125V
PX	Y	X11-3572-91	YES	YES	YES	NO	NO	NO	NO	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	YES	5A 250V
GENERAL MARKET	M	X11-3570-21	YES	YES	NO	NO	NO	NO	YES	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	YES	5A 250V
AUSTRALIA	X	X11-3570-71	YES	YES	NO	NO	NO	NO	NO	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	NO	5A 250V
U.K.	T	X11-3570-51	YES	YES	NO	NO	NO	NO	NO	YES	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	NO	5A 250V
EUROPE	E	X11-3572-71	YES	YES	NO	NO	NO	YES	NO	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	YES	NO	5A 250V
GERMANY	G																	

D29,30 : KBP02ML-6127
D31 : D3SBA20F03 or RBV-402LFA
D32,33 : S5688B or 1SR139-100

(X07-286X-XX) (A/5)

(X07-) (B/5)

(X07-) (C

Q1–4,25 : 2SC4137(V,W)
Q7,8 : 2SC3944A(Q,R)
Q11,12 : 2SA1535A(Q,R)
Q13,14,28 : 2SD2401M ★5
Q15,16 : 2SD1718
Q17,18,29 : 2SB1570M ★5
Q19,20 : 2SB1163
Q21–24,30 : 2SC1845(F,E)
Q31,33 : 2SC1740S(Q,R) or 2SC2785(F,E)
Q34 : 2SD2061(E,F) or 2SD2012
Q35 : 2SA992(F,E)

Q36–39 : 2SC2003(L,K)
Q40–43 : UN4212 or DTC124ES

IC1 : μPC1237HA

D5–12,18–24 : 1SS131 or HSS104A
D13–16 : 1SS133 or HSS104
D25 : RD6.8ES(B2) or HZS6.8N(B2)
D26 : ★
D27,28 : D5FB20–4002–L2

(X11-357X-XX)

DESTINATION	ABB.	UNIT No.	C118, 120	R110	R112	J1	J2	J3	J4	J5	K1	K2	T1	CN9,10	CN11, 12	CN13, 14	F1	F2	F3	WH13, 18,20	WH14, 15	WH16, 17,19	WH25, 26	W222	W225	W226	W260	D19
U.S.A.	K	X11-3570-10	NO	NO	YES	NO	YES	NO	NO	NO	YES	S76-0002-05	L07-1937-05	J13-0041-05	NO	NO	12A 250V	NO	NO	NO	YES	NO	NO	YES	YES	YES	YES	NO
CANADA	P	X11-3571-01	YES	YES	YES	NO	YES	NO	NO	NO	YES	S76-0009-05	L07-1937-05	J13-0075-05	NO	YES	6A 125V	NO	6A 125V	YES	NO	NO	NO	YES	YES	YES	NO	YES
PX	Y	X11-3572-91	YES	YES	NO	YES	NO	NO	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	YES	5A 250V	NO	5A 250V	NO	NO	YES	NO	YES	NO	YES	NO	YES
GENERAL MARKET	M	X11-3570-21	YES	YES	NO	NO	NO	NO	NO	YES	NO	S76-0002-05	L07-1898-05	J13-0075-05	NO	YES	5A 250V	NO	NO	NO	NO	YES	NO	YES	NO	YES	NO	YES
AUSTRALIA	X	X11-3570-71	YES	YES	NO	NO	NO	NO	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	NO	5A 250V	NO	NO	NO	YES	NO	YES	NO	YES	NO	YES	NO
U.K.	T	X11-3570-51	YES	YES	NO	NO	NO	NO	NO	YES	YES	S76-0002-05	L07-1898-05	J13-0075-05	NO	NO	5A 250V	NO	NO	NO	YES	NO	NO	YES	YES	NO	YES	NO
EUROPE	E	X11-3572-71	YES	YES	NO	NO	NO	YES	NO	NO	YES	S76-0002-05	L07-1898-05	J13-0075-05	YES	NO	5A 250V	YES	NO	NO	YES	NO	NO	NO	YES	YES	NO	YES
GERMANY	G																											

(X07-286X-XX)

DESTINATION	ABB.	UNIT No.	C29-36, 74,75	C37-52, 76-79	D26	F1-4	F5	X07 D/5	J1	J2
U.S.A.	K	X07-2860-10	NO	YES	RD4.7ES(B2) or HZS4.7N(B2)	1.6A 250V	2A 250V	NO	E70-0055-05	E70-0049-05
CANADA	P	X07-2861-01	NO	YES	RD4.7ES(B2) or HZS4.7N(B2)	1.6A 250V	2A 250V	YES	E70-0055-05	E70-0049-05
PX	Y	X07-2860-21	YES	NO	RD6.8ES(B2) or HZS6.8N(B2)	T1.25AL 250V	T1.25AL 250V	NO	E70-0055-05	E70-0049-05
GENERAL MARKET	M									
GERMANY	G									
AUSTRALIA	X									
U.K.	T									
EUROPE	E									
GENERAL MARKET	M	X07-2860-22 (Gold Version)	YES	NO	RD6.8ES(B2) or HZS6.8N(B2)	T1.25AL 250V	T1.25AL 250V	NO	E70-0060-05	E70-0059-05

D29,30 : KBP02ML-6127
D31 : D3SBA20F03 or RBV-402LFA
D32,33 : S5688B or 1SR139-100

R150 22K 1/4W

(X07-) (B/5)

(K,X,E,T,G) TYPE

(X11-) (F/6)

(X07-) (C/5)

(X07-) (E/5)

(P) TYPE

(Y,M) TYPE (X11-) (D/6)

USED (Y,M) TYPE

(X11-) (E/6)

(X) TYPE ONLY

(X11-) (C/6)

SIGNAL LINE
GND LINE
+B LINE
-B LINE

(K,P) AC120V 60Hz
(Y,M) AC110-120V/ AC220V/AC230-240V 50/60Hz
(X) AC240V 50Hz
(T,E,G) AC230V 50Hz

(K,P) : WHT
(M,X,T,E,G): BLU

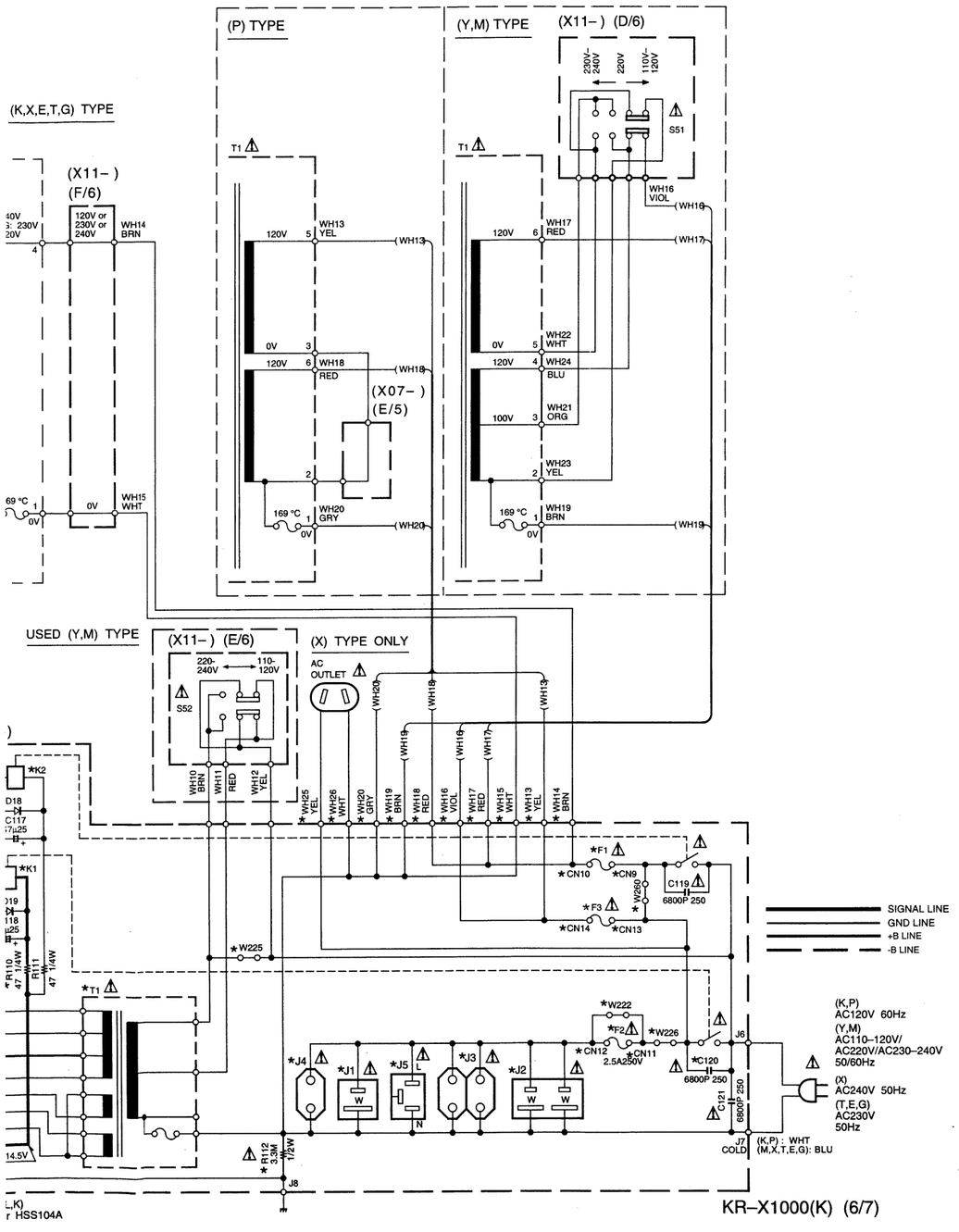
Q54 : 2SC2003(L,K)
D18,19 : 1SS131 or HSS104A

KR-X1000(K) (6/7)

14,	WH16, 17,19	WH25, 26	W222	W225	W226	W260	D19
S	NO	NO	YES	YES	YES	YES	NO
)	NO	NO	YES	YES	YES	NO	YES
)	YES	NO	YES	NO	YES	NO	YES
)	YES	NO	YES	NO	YES	NO	YES
S	NO	YES	NO	YES	NO	NO	YES
S	NO	NO	YES	YES	YES	NO	YES
S	NO	NO	NO	YES	YES	NO	YES

(X07-286X-XX)

DESTINATION		UNIT No.	C29–36, 74,75	C37–52, 76–79	D26	F1–4	F5	X07 D/5	J1	J2
COUNTRY	ABB.									
U.S.A.	K	X07–2860–10	NO	YES	RD4.7ES(B2) or HZS4.7N(B2)	1.6A 250V	2A 250V	NO	E70–0055–05	E70–0049–05
CANADA	P	X07–2861–01	NO	YES	RD4.7ES(B2) or HZS4.7N(B2)	1.6A 250V	2A 250V	YES	E70–0055–05	E70–0049–05
PX	Y	X07–2860–21	YES	NO	RD6.8ES(B2) or HZS6.8N(B2)	T1.25AL 250V	T1.25AL 250V	NO	E70–0055–05	E70–0049–05
GENERAL MARKET	M									
GERMANY	G									
AUSTRALIA	X									
U.K.	T									
EUROPE	E									
GENERAL MARKET	M	X07–2860–22 (Gold Version)	YES	NO	RD6.8ES(B2) or HZS6.8N(B2)	T1.25AL 250V	T1.25AL 250V	NO	E70–0060–05	E70–0059–05



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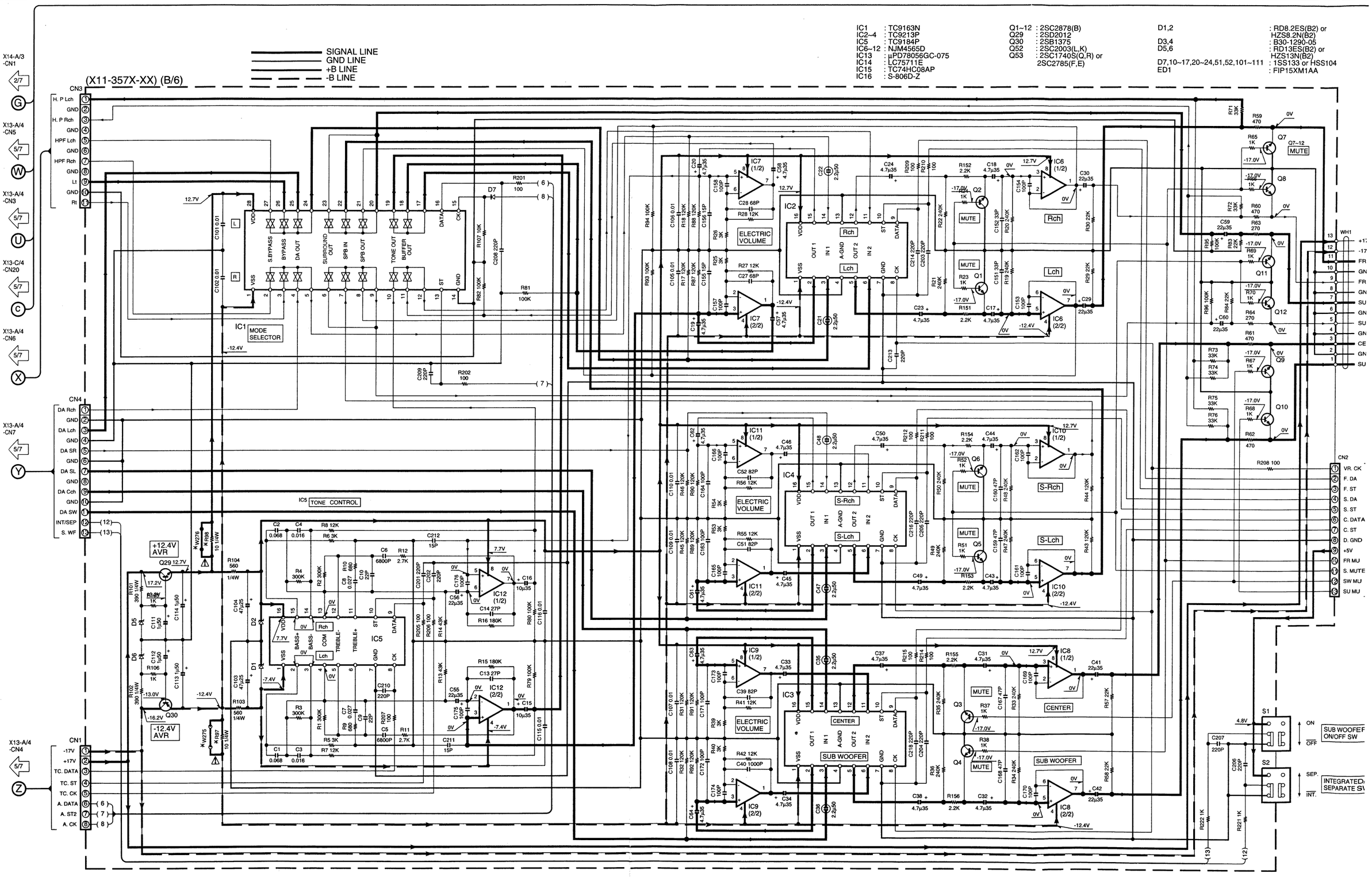
KR-X1000/(G)

KENWOOD



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- D(vo inc

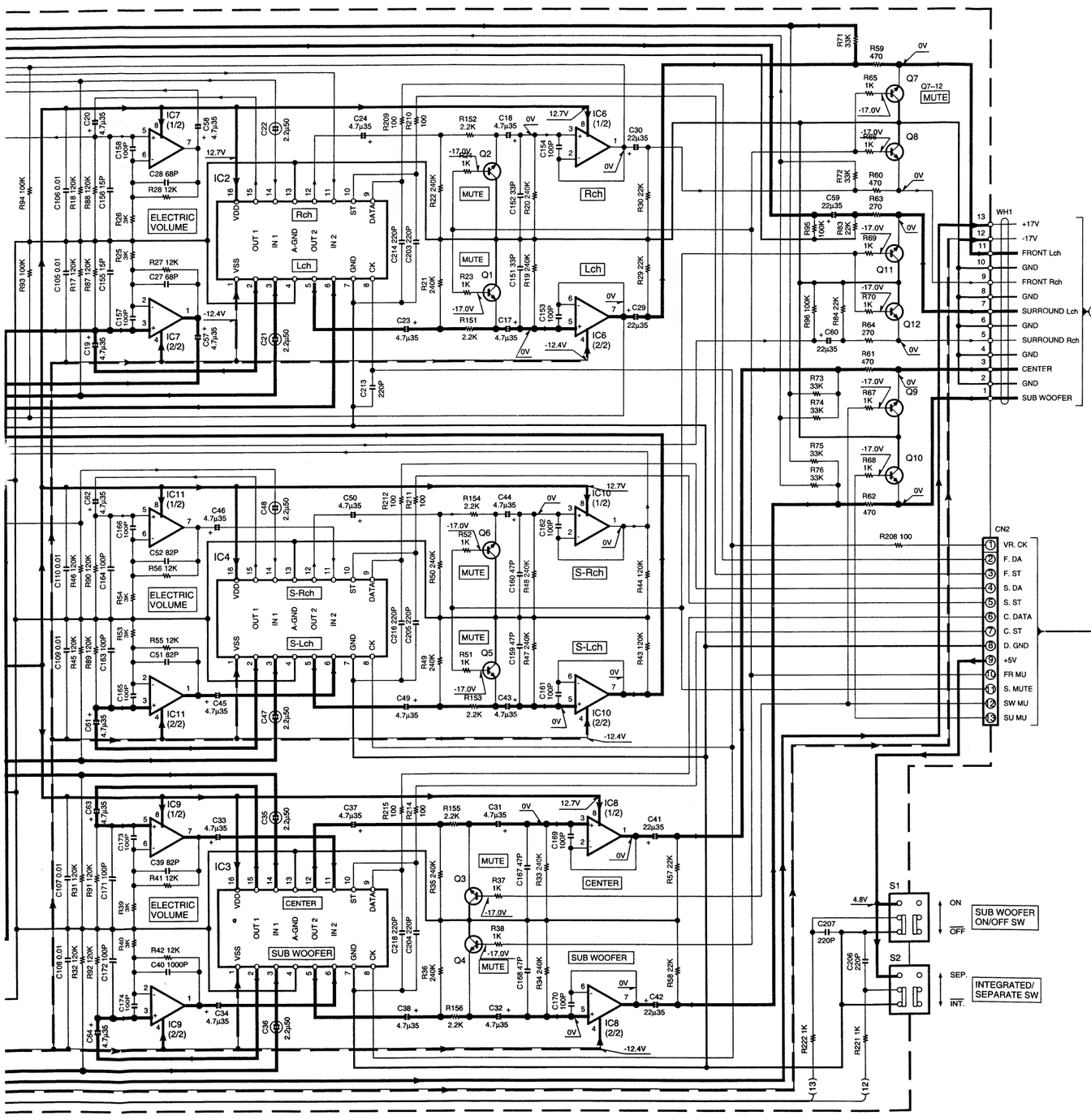
IC1 : TC9163N
IC2~4 : TC9213P
IC5 : TC9184P
IC6~12 : NJM4565D
IC13 : μPD78056GC-075
IC14 : LC75711E
IC15 : TC74HC08AP
IC16 : S-806D-Z

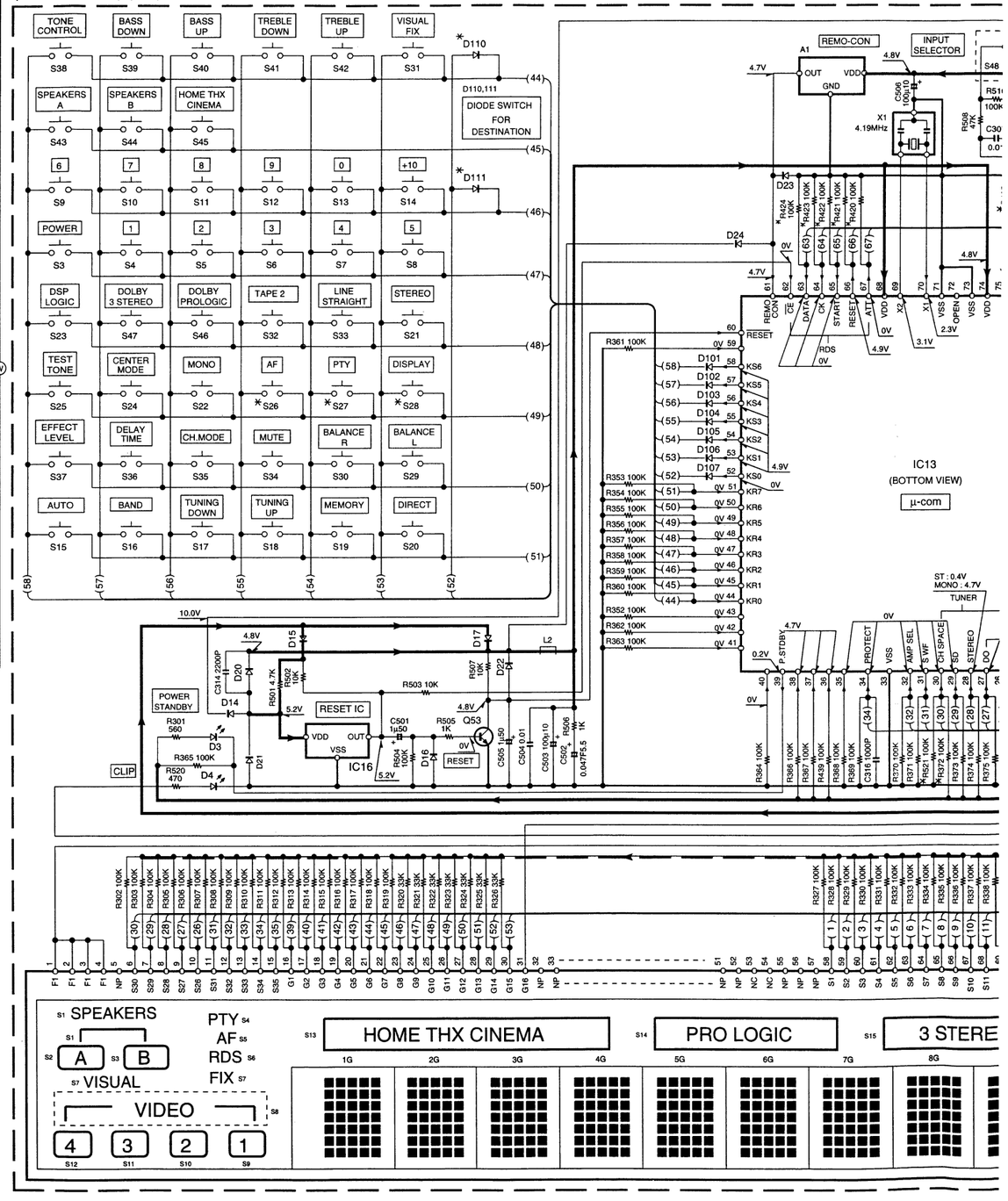
Q1~12 : 2SC2878(B)
Q29 : 2SD2012
Q30 : 2SB1375
Q52 : 2SC2003(L,K)
Q53 : 2SC1740S(Q,R) or 2SC2785(F,E)

D1,2 : RD8.2ES(B2) or HZS8.2N(B2)
D3,4 : B30-1290-05
D5,6 : RD13ES(B2) or HZS13N(B2)
D7,10~17,20~24,51,52,101~111 : 1SS133 or HSS104
ED1 : FIP15XM1AA

DESTINATION		UNIT No.	R97, 98	R372	R383~388	R420~425	R521	D110	D111	W275, 276	S26~28
COUNTRY	ABB.										
U.S.A.	K	X11-3570-10	NO	YES	NO	YES	NO	NO	NO	YES	NO
CANADA	P	X11-3571-01	NO	YES	NO	YES	NO	NO	NO	YES	NO
PX	Y	X11-3572-91	YES	YES	NO	YES	NO	NO	NO	NO	NO
GENERAL MARKET	M	X11-3570-21	YES	YES	NO	YES	NO	YES	NO	NO	NO
AUSTRALIA	X	X11-3570-71	YES	NO	NO	YES	YES	YES	NO	NO	NO
U.K.	T	X11-3570-51	YES	YES	YES	NO	NO	YES	YES	NO	YES
EUROPE	E										
GERMANY	G	X11-3572-71	YES	YES	YES	NO	NO	YES	YES	NO	YES

(X11-357X-XX) (A/6)





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DESTINATION		UNIT No.	R97, 98	R372	R383~388	R420~425	R521	D110	D111	W275, 276	S26~28
COUNTRY	ABB.										
U.S.A.	K	X11-3570-10	NO	YES	NO	YES	NO	NO	NO	YES	NO
CANADA	P	X11-3571-01	NO	YES	NO	YES	NO	NO	NO	YES	NO
PX	Y	X11-3572-91	YES	YES	NO	YES	NO	YES	NO	NO	NO
GENERAL MARKET	M	X11-3570-21	YES	YES	NO	YES	NO	YES	NO	NO	NO
AUSTRALIA	X	X11-3570-71	YES	NO	NO	YES	YES	YES	NO	NO	NO
U.K.	T	X11-3570-51	YES	YES	YES	NO	NO	YES	YES	NO	YES
EUROPE	E	X11-3572-71	YES	YES	YES	NO	NO	YES	YES	NO	YES
GERMANY	G										

11-357X-XX) (A/6)

TONE CONTROL S38 | BASS DOWN S39 | BASS UP S40 | TREBLE DOWN S41 | TREBLE UP S42 | VISUAL FIX S31

SPEAKERS A S43 | SPEAKERS B S44 | HOME THX CINEMA S45

6 S9 | 7 S10 | 8 S11 | 9 S12 | 0 S13 | +10 S14

POWER S3 | 1 S4 | 2 S5 | 3 S6 | 4 S7 | 5 S8

DSP LOGIC S23 | DOLBY 3 STEREO S47 | DOLBY PROLOGIC S46 | TAPE 2 S32 | LINE STRAIGHT S33 | STEREO S21

TEST TONE S25 | CENTER MODE S24 | MONO S22 | AF S26 | PTY S27 | DISPLAY S28

EFFECT LEVEL S37 | DELAY TIME S36 | CH.MODE S35 | MUTE S34 | BALANCE R S30 | BALANCE L S29

AUTO S15 | BAND S16 | TUNING DOWN S17 | TUNING UP S18 | MEMORY S19 | DIRECT S20

D110 D110,111 DIODE SWITCH FOR DESTINATION (44) (45) (46) (47) (48) (49) (50) (51)

REMO-CON A1 | INPUT SELECTOR | VOLUME CONTROL S49 | MULTI CONTROL S50

IC13 (BOTTOM VIEW) μ-com

IC14 (BOTTOM VIEW) FL DRIVER

IC15 OSD DATA CONTROL

IC16 RESET IC

POWER STANDBY | CLIP

WH2 CN5

TUNER | RDS | VIDEO | SUB μ-com | SERIAL

(DC VOLTAGE(±B) OF FL TUBE(=IC14) IS ON THE FL DISPLAY BELOW.)

SPEAKERS A | STEREO AUTO | TUNED | FM87.50MHz | VIDEO

ED1

S1 SPEAKERS A B | PTY S4 | AF S5 | RDS S6 | S7 VISUAL FIX | VIDEO 4 3 2 1 S12 S11 S10 S9 | S8

S13 HOME THX CINEMA | S14 PRO LOGIC | S15 3 STEREO | S16 DSP LOGIC | S17 MONO

S21 TONE | S20 STEREO TUNED | S19 AUTO MEMORY S23 | S18 MUTE TAPE 2 S24 | S25 LINE STRAIGHT

KR-X1000(K)(7/7)

as measured with a high impedance
nay vary slightly due to variations between
nts or/and units.

KR-X1000/(G)

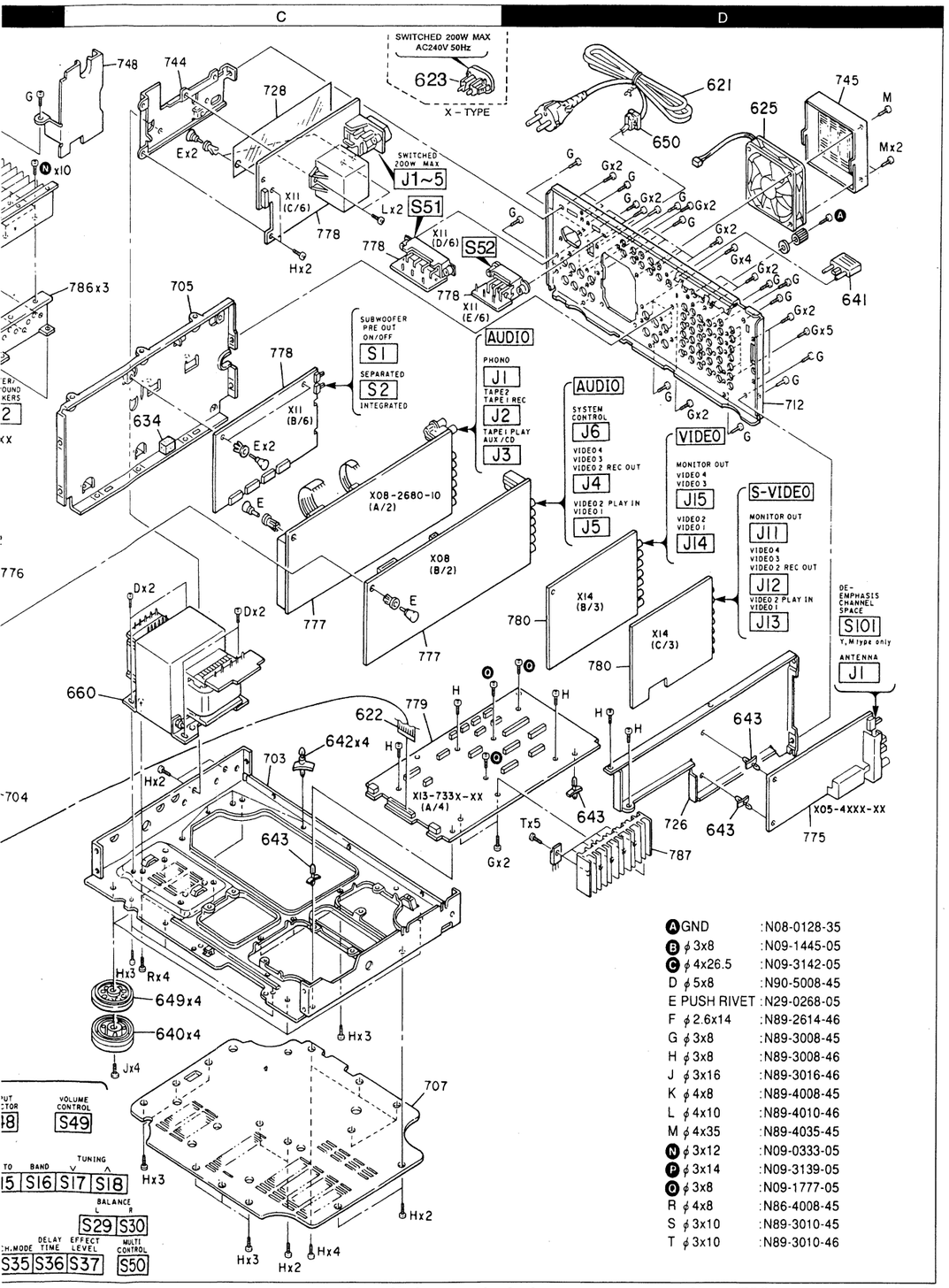
KENWOOD

EXPLODED VIEW

A GND	:N08-0128-35
B φ3x8	:N09-1445-05
C φ4x26.5	:N09-3142-05
D φ5x8	:N90-5008-45
E PUSH RIVET	:N29-0268-05
F φ2.6x14	:N89-2614-46
G φ3x8	:N89-3008-45
H φ3x8	:N89-3008-46
J φ3x16	:N89-3016-46
K φ4x8	:N89-4008-45
L φ4x10	:N89-4010-46
M φ4x35	:N89-4035-45
N φ3x12	:N09-0333-05
P φ3x14	:N09-3139-05
O φ3x8	:N09-1777-05
R φ4x8	:N86-4008-45
S φ3x10	:N89-3010-45
T φ3x10	:N89-3010-46

Parts with the exploded numbers larger than 700 are not supplied.

ODED VIEW



Ⓐ GND	:N08-0128-35
Ⓑ φ3x8	:N09-1445-05
Ⓒ φ4x26.5	:N09-3142-05
D φ5x8	:N90-5008-45
E PUSH RIVET	:N29-0268-05
F φ2.6x14	:N89-2614-46
G φ3x8	:N89-3008-45
H φ3x8	:N89-3008-46
J φ3x16	:N89-3016-46
K φ4x8	:N89-4008-45
L φ4x10	:N89-4010-46
M φ4x35	:N89-4035-45
Ⓝ φ3x12	:N09-0333-05
Ⓟ φ3x14	:N09-3139-05
Ⓞ φ3x8	:N09-1777-05
R φ4x8	:N86-4008-45
S φ3x10	:N89-3010-45
T φ3x10	:N89-3010-46

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

NO.2

Ref. No.	Add-ress	New Parts	Parts No.	Description	Destination	Remarks
		*	H50-1518-04	ITEM CARTON CASE	T	G
		*	H50-1519-04	ITEM CARTON CASE		
-	-	*	H10-7019-02	POLYSTYRENE FOAMED FIXTURE(L)		
-	-	*	H10-7020-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	*	H10-7054-11	POLYSTYRENE FOAMED FIXTURE(T)		G
-	-	*	H10-7055-11	POLYSTYRENE FOAMED FIXTURE(B)	T	G
-	-	*	H12-2230-14	PACKING FIXTURE		
-	-	*	H13-0208-04	CARTON BOARD	T	G
-	-	*	H13-0209-04	CARTON BOARD	KPYMXE	
-	-	*	H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-	-	*	H25-0232-04	PROTECTION BAG (235X350X0.03)		G
-	-	*	H25-0383-04	PROTECTION BAG	T	G
-	-	*	H25-0651-04	PROTECTION BAG (0232 PRINTED)		G
-	-	*	H25-0692-04	PROTECTION BAG		G
640	3C	*	J02-1002-05	FOOT		G
640	3C	*	J02-1134-05	FOOT		G
641	1D		J12-0091-15	PIN		
642	2B,2C		J19-3324-15	UNIT HOLDER		
643	2C,2D		J19-3325-05	UNIT HOLDER		
649	3C		J39-0186-04	SPACER		
650	1D		J42-0083-05	POWER CORD BUSHING		
△ -	-		J61-0307-05	WIRE BAND		
652	3A	*	K29-6128-03	KNOB	K	G
652	3A	*	K29-6129-03	KNOB	YM	G
655	3A	*	K29-6130-04	KNOB	X	G
655	3A	*	K29-6161-04	VOLUME CONTROL	TEG	G
656	3A	*	K29-6131-04	KNOB	P	G
656	3A	*	K29-6162-04	INPUT SELECTOR		G
657	3A	*	K29-6132-04	KNOB		G
657	3A	*	K29-6163-04	MULTI CONTROL		G
△ 660	2C	*	L07-1933-15	POWER TRANSFORMER	K	
△ 660	2C	*	L07-1934-15	POWER TRANSFORMER	YM	
△ 660	2C	*	L07-1935-15	POWER TRANSFORMER	X	
△ 660	2C	*	L07-1936-15	POWER TRANSFORMER	TEG	
△ 660	2C	*	L07-1980-15	POWER TRANSFORMER	P	
-	-	*	L92-0035-05	FERRITE CORE		G
A	1D		N08-0128-35	BINDING POST (GND)		
B	2A,3A		N09-1445-05	SET SCREW (M3X8)		
C	1A,1B		N09-3142-05	DRESSED SCREW (4X26.5,+)		
D	2C	*	N90-5008-45	TP HEAD MACHINE SCREW		
E	1C,2C		N29-0268-05	PUSH RIVET		G
F	2B		N89-2614-46	BINDING HEAD TAPTITE SCREW		
G	1B,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B,3C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
J	3C	*	N89-3016-46	BINDING HEAD TAPTITE SCREW		
K	1A		N89-4008-45	BINDING HEAD TAPTITE SCREW		
L	1C		N89-4010-46	BINDING HEAD TAPTITE SCREW		
M	1D	*	N89-4035-45	BINDING HEAD TAPTITE SCREW		G
Q	2D		N09-1777-05	SEMS (TAPTITE SCREW)		
R	3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
S	1B		N89-3010-45	BINDING HEAD TAPTITE SCREW		
670	2A		T90-0195-05	LOOP ANTENNA ASSY		
671	2A		T90-0196-05	ANTENNA ADAPTOR		G

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Teile ohne **Parts No.** werden nicht geliefert.

L:Scandinavia **K**:USA **P**:Canada **R**:Mexico **Remark G** : Gold version

NO.1

Ref. No.	Add-ress	New Parts	Parts No.	Description	Destination	Remarks
				KR-X1000/(G)		
601	1A	*	A01-3224-01	METALLIC CABINET		G
601	1A	*	A01-3234-01	METALLIC CABINET		
602	2A	*	A09-0193-08	BATTERY COVER		
606	2A	*	A22-1695-22	SUB PANEL ASSY	KPYMX	G
606	2A	*	A22-1697-22	SUB PANEL ASSY	TEG	G
606	2A	*	A22-1705-22	SUB PANEL ASSY		G
608	1A	*	A50-0379-03	SIDE PLATE ASSY LEFT		
609	1A	*	A50-0381-03	SIDE PLATE ASSY RIGHT		
610	3A	*	A60-0723-12	PANEL ASSY	KPYMX	G
610	3A	*	A60-0725-12	PANEL ASSY	TEG	G
610	3A	*	A60-0749-12	PANEL ASSY	KPYMX	G
611	2A	*	A70-1019-05	REMOTE CONTROLLER ASSY	TEG	G
611	2A	*	A70-1027-05	REMOTE CONTROLLER ASSY		
615	3A	*	B07-2282-02	ESCUTCHEON		G
615	3A	*	B07-2283-02	ESCUTCHEON		G
616	2A	*	B10-2103-03	FRONT GLASS		G
616	2A	*	B10-2104-03	FRONT GLASS		
617	3A		B43-0287-04	KENWOOD BADGE		
-	-	*	B46-0092-43	WARRANTY CARD	KY	
-	-	*	B46-0096-53	WARRANTY CARD	X	
-	-		B46-0197-00	WARRANTY CARD	P	
-	-		B46-0310-03	WARRANTY CARD	K	
-	-	*	B58-0964-13	CAUTION CARD (CAUTION UL)	TEG	
-	-	*	B58-0965-13	CAUTION CARD (TX TYPE PL)	KY	G
-	-	*	B58-0966-13	CAUTION CARD (ELM TYPE PL)	PXT	G
-	-	*	B58-0968-04	CAUTION CARD	ME	G
-	-	*	B58-0970-13	CAUTION CARD (RG TYPE PL)	Y	
-	-	*	B60-2100-00	INSTRUCTION MANUAL(EN)	KPYMX	G
-	-	*	B60-2101-00	INSTRUCTION MANUAL(EN)	T	
-	-	*	B60-2102-00	INSTRUCTION MANUAL(FR)	P	
-	-	*	B60-2103-00	INSTRUCTION MANUAL(SP/C)	M	
-	-	*	B60-2104-00	INSTRUCTION MANUAL(G)	EG	
-	-	*	B60-2232-00	INSTRUCTION MANUAL(FR/D)	E	
-	-	*	B60-2233-00	INSTRUCTION MANUAL(IT/SP)	E	
-	-	*	B60-2234-00	INSTRUCTION MANUAL(TAIWAN)	M	
620	2A		E19-0207-05	AC PLUG ADAPTER	M	
621	1D		E30-0685-05	AC POWER CORD	Y	
621	1D		E30-0976-05	AC POWER CORD	KP	
621	1D		E30-2579-05	AC POWER CORD	MEG	
621	1D		E30-2714-05	AC POWER CORD	X	
621	1D		E30-2718-05	AC POWER CORD	T	
622	2B,2C		E31-7603-05	WIRING HARNESS(39P)X11-X13		
623	1C		E03-0141-05	AC OUTLET	X	
625	1D	*	F09-0095-05	FAN		
633	2A	*	G11-0155-14	SOFT TAPE (40X9X2)		
634	1C	*	G11-2192-04	CUSHION (25X5X1)		
636	2A,2B	*	G11-2236-04	CUSHION (20X10X30)		
637	2B	*	G11-2237-04	CUSHION		
		*	H50-1476-04	ITEM CARTON CASE	KPYXEG	
		*	H50-1477-04	ITEM CARTON CASE	M	

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NO.1

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
				KR-X1000/(G)		
601	1A	*	A01-3224-01	METALLIC CABINET		
601	1A	*	A01-3234-01	METALLIC CABINET		G
602	2A	*	A09-0193-08	BATTERY COVER		
606	2A	*	A22-1695-22	SUB PANEL ASSY	KPYMX	
606	2A	*	A22-1697-22	SUB PANEL ASSY	TEG	
606	2A	*	A22-1705-22	SUB PANEL ASSY		G
608	1A	*	A50-0379-03	SIDE PLATE ASSY LEFT		G
609	1A	*	A50-0381-03	SIDE PLATE ASSY RIGHT		G
610	3A	*	A60-0723-12	PANEL ASSY	KPYMX	
610	3A	*	A60-0725-12	PANEL ASSY	TEG	
610	3A	*	A60-0749-12	PANEL ASSY		G
611	2A	*	A70-1019-05	REMOTE CONTROLLER ASSY	KPYMX	
611	2A	*	A70-1027-05	REMOTE CONTROLLER ASSY	TEG	
615	3A	*	B07-2282-02	ESCUTCHEON		
615	3A	*	B07-2283-02	ESCUTCHEON		G
616	2A	*	B10-2103-03	FRONT GLASS		
616	2A	*	B10-2104-03	FRONT GLASS		G
617	3A		B43-0287-04	KENWOOD BADGE		
-		*	B46-0092-43	WARRANTY CARD	KY	
-		*	B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	TEG	
-		*	B58-0964-13	CAUTION CARD (CAUTION UL)	KY	
-		*	B58-0965-13	CAUTION CARD (TX TYPE PL)	PXT	
-		*	B58-0966-13	CAUTION CARD (ELM TYPE PL)	ME	
-		*	B58-0968-04	CAUTION CARD	Y	
-		*	B58-0970-13	CAUTION CARD (RG TYPE PL)		G
-		*	B60-2100-00	INSTRUCTION MANUAL(EN)	KPYMX	
-		*	B60-2101-00	INSTRUCTION MANUAL(EN)	T	
-		*	B60-2102-00	INSTRUCTION MANUAL(FR)	P	
-		*	B60-2103-00	INSTRUCTION MANUAL(SP/C)	M	
-		*	B60-2104-00	INSTRUCTION MANUAL(G)	EG	
-		*	B60-2232-00	INSTRUCTION MANUAL(FR/D)	E	
-		*	B60-2233-00	INSTRUCTION MANUAL(IT/SP)	E	
-		*	B60-2234-00	INSTRUCTION MANUAL(TAIWAN)	M	
⚠ 620	2A		E19-0207-05	AC PLUG ADAPTER	M	
⚠ 621	1D		E30-0685-05	AC POWER CORD	Y	
⚠ 621	1D		E30-0978-05	AC POWER CORD	KP	
⚠ 621	1D		E30-2579-05	AC POWER CORD	MEG	
⚠ 621	1D		E30-2714-05	AC POWER CORD	X	
⚠ 621	1D		E30-2718-05	AC POWER CORD	T	
622	2B,2C		E31-7803-05	WIRING HARNESS(39P)X11-X13		
⚠ 623	1C		E03-0141-05	AC OUTLET	X	
625	1D	*	F09-0095-05	FAN		
633	2A		G11-0155-14	SOFT TAPE (40X9X2)		
634	1C	*	G11-2192-04	CUSHION		
636	2A,2B	*	G11-2236-04	CUSHION (25X5X1)		
637	2B	*	G11-2237-04	CUSHION (20X10X30)		
		*	H50-1476-04	ITEM CARTON CASE	KPYXEG	
		*	H50-1477-04	ITEM CARTON CASE	M	

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Y:PX(Far East, Hawaii) **T:**England **E:**Europe **G:**Germany
Y:AAFES(Europe) **X:**Australia **M:**Other Areas

⚠ indicates safety critical components.

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NO.2

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
		*	H50-1518-04	ITEM CARTON CASE	T	
		*	H50-1519-04	ITEM CARTON CASE		G
-		*	H10-7019-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-7020-02	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H10-7054-11	POLYSTYRENE FOAMED FIXTURE(T)		G
-		*	H10-7055-11	POLYSTYRENE FOAMED FIXTURE(B)		G
-		*	H12-2230-14	PACKING FIXTURE	T	
-		*	H13-0208-04	CARTON BOARD		G
-		*	H13-0209-04	CARTON BOARD	KPYMXE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		G
-			H25-0383-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0692-04	PROTECTION BAG		G
640	3C		J02-1002-05	FOOT		
640	3C	*	J02-1134-05	FOOT		G
641	1D		J12-0091-15	PIN		
642	2B,2C		J19-3324-15	UNIT HOLDER		
643	2C,2D		J19-3325-05	UNIT HOLDER		
649	3C		J39-0186-04	SPACER		
⚠ 650	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
652	3A	*	K29-6128-03	KNOB 10 KEY		
652	3A	*	K29-6129-03	KNOB 10 KEY		G
655	3A	*	K29-6130-04	KNOB VOLUME CONTROL		
655	3A	*	K29-6161-04	KNOB VOLUME CONTROL		G
656	3A	*	K29-6131-04	KNOB INPUT SELECTOR		
656	3A	*	K29-6162-04	KNOB INPUT SELECTOR		G
657	3A	*	K29-6132-04	KNOB MULTI CONTROL		
657	3A	*	K29-6163-04	KNOB MULTI CONTROL		G
⚠ 660	2C	*	L07-1933-15	POWER TRANSFORMER	K	
⚠ 660	2C	*	L07-1934-15	POWER TRANSFORMER	YM	
⚠ 660	2C	*	L07-1935-15	POWER TRANSFORMER	X	
⚠ 660	2C	*	L07-1936-15	POWER TRANSFORMER	TEG	
⚠ 660	2C	*	L07-1980-15	POWER TRANSFORMER	P	
-			L92-0035-05	FERRITE CORE		
A	1D		N08-0128-35	BINDING POST (GND)		
B	2A,3A		N09-1445-05	SET SCREW (M3X8)		
C	1A,1B		N09-3142-05	DRESSED SCREW (4X26.5,+)		G
D	2C	*	N90-5008-45	TP HEAD MACHINE SCREW		
E	1C,2C		N29-0268-05	PUSH RIVET		
F	2B		N89-2614-46	BINDING HEAD TAPTITE SCREW		
G	1B,1D		N89-3008-45	BINDING HEAD TAPTITE SCREW		
H	2B,3C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
J	3C	*	N89-3016-46	BINDING HEAD TAPTITE SCREW		
K	1A		N89-4008-45	BINDING HEAD TAPTITE SCREW		
L	1C		N89-4010-46	BINDING HEAD TAPTITE SCREW		
M	1D	*	N89-4035-45	BINDING HEAD TAPTITE SCREW		
Q	2D		N09-1777-05	SEMS (TAPTITE SCREW) G		
R	3C		N86-4008-45	BINDING HEAD TAPTITE SCREW		
S	1B		N89-3010-45	BINDING HEAD TAPTITE SCREW		
670	2A		T90-0195-05	LOOP ANTENNA ASSY		
671	2A		T90-0198-05	ANTENNA ADAPTOR		

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NO.3

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
672	2A		T90-0801-05	LEAD WIRE ANTENNA		
674	2A		J19-3645-05	ANTENNA STAND		
				TUNER UNIT (X05-4460-XX) K,P,Y,M,X type		
C1,2			CK73FB1H103K	CHIP C 0.010UF K	KPYMX	
C4			CE04LW1A470M	ELECTRO 47UF 10WV	KPYMX	
C5			CK73FB1H103K	CHIP C 0.010UF K	KPYMX	
C8			CK73FB1H103K	CHIP C 0.010UF K	KPYMX	
C10			CK73FB1H102K	CHIP C 1000PF K	KPYMX	
C11			CE04LW1H4R7M	ELECTRO 4.7UF 50WV	KPYMX	
C13			CE04LW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C14			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	KPYMX	
C21,22			CQ92FM1H163J	MYLAR 0.016UF J	YMX	
C21,22			CQ92FM1H243J	MYLAR 0.024UF J	KP	
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C24			CE04LW1H3R3M	ELECTRO 3.3UF 50WV	KPYMX	
C25			CE04LW1V100M	ELECTRO 10UF 35WV	KPYMX	
C27			CK73FB1E473K	CHIP C 0.047UF K	KPYMX	
C28			CE04LW1V100M	ELECTRO 10UF 35WV	KPYMX	
C31			CE04LW1A470M	ELECTRO 47UF 10WV	KPYMX	
C32			CK73FB1H103K	CHIP C 0.010UF K	KPYMX	
C33			CC73FCH1H270J	CHIP C 27PF J	KPYMX	
C34			CC73FCH1H220J	CHIP C 22PF J	KPYMX	
C35-38			CK73FB1H471K	CHIP C 470PF K	KPYMX	
C39			CE04LW1C470M	ELECTRO 47UF 16WV	KPYMX	
C40			CK73FB1H223K	CHIP C 0.022UF K	KPYMX	
C41			CE04LW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C42,43			CK73FB1H103K	CHIP C 0.010UF K	KPYMX	
C50			C91-0769-05	CERAMIC 0.010UF K	KPYMX	
C51			CE04LW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C52			CE04LW1C470M	ELECTRO 47UF 16WV	KPYMX	
C57			CC73FSL1H220J	CHIP C 22PF J	KPYMX	
C65			CE04LW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C66			CK73FB1H102K	CHIP C 1000PF K	KPYMX	
C71			CE04LW1V100M	ELECTRO 10UF 35WV	KPYMX	
C72			CE04LW1C470M	ELECTRO 47UF 16WV	KPYMX	
C103-106			CE04LW1HR47M	ELECTRO 0.47UF 50WV	KPYMX	
C107			CK73FB1E473K	CHIP C 0.047UF K	KPYMX	
C112			CC73FSL1H101J	CHIP C 100PF J	KPYMX	
C114			CK73FB1H681K	CHIP C 680PF K	KPYMX	
C115,116			CC73FSL1H101J	CHIP C 100PF J	KPYMX	
C121,122			CE04LW1C470M	ELECTRO 47UF 16WV	KPYMX	
C135,136			CQ92FM1H682J	MYLAR 6800PF J	YM	
C182			CC73FSL1H150J	CHIP C 15PF J	KPYMX	
CN1	2D		E40-4234-05	FLAT CABLE CONNCTOR	KPYMX	
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA	KPYMX	
CF1,2			L72-0531-05	CERAMIC FILTER	KPYMX	
CF3			L72-0574-05	CERAMIC FILTER	KPYMX	
L7			L30-0467-05	AM IFT	KPYMX	
L10			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYMX	
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)	KPYMX	
L12			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYMX	
L103			L39-1328-05	COMBINATION COIL	KPYMX	

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NO.4

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
L106			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYMX	
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)	KPYMX	
X2			L78-0295-05	RESONATOR (456kHz)	KPYMX	
R1			RK73FB2A681J	CHIP R 680 J 1/10W	KPYMX	
R2			RK73FB2A332J	CHIP R 3.3K J 1/10W	KPYMX	
R3			RK73FB2A331J	CHIP R 330 J 1/10W	KPYMX	
R4			RK73FB2A470J	CHIP R 47 J 1/10W	KPYMX	
R6			RK73FB2A331J	CHIP R 330 J 1/10W	KPYMX	
⚠ R11			RS14KB3A820J	FL-PROOF RS 82 J 1W	KPYMX	
R15			RK73FB2A391J	CHIP R 390 J 1/10W	KPYMX	
R19			RK73FB2A332J	CHIP R 3.3K J 1/10W	KPYMX	
R21 ,22			RK73FB2A393J	CHIP R 39K J 1/10W	KPYMX	
R24			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPYMX	
R25			RK73FB2A103J	CHIP R 10K J 1/10W	KPYMX	
R31			RS14KB3D221J	FL-PROOF RS 220 J 2W	KPYMX	
R32 -37			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPYMX	
R38			RK73FB2A221J	CHIP R 220 J 1/10W	KPYMX	
R39			RK73FB2A822J	CHIP R 8.2K J 1/10W	KPYMX	
R40			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPYMX	
R42			RD14NB2E101J	RD 100 J 1/4W	KPYMX	
R43			RK73FB2A103J	CHIP R 10K J 1/10W	KPYMX	
R52			RK73FB2A472J	CHIP R 4.7K J 1/10W	KPYMX	
R64			RK73FB2A104J	CHIP R 100K J 1/10W	KPYMX	
R101,102			RK73FB2A333J	CHIP R 33K J 1/10W	KPYMX	
R105,106			RK73FB2A123J	CHIP R 12K J 1/10W	KPYMX	
R111			RD14NB2E470J	RD 47 J 1/4W	KPYMX	
R118			RK73FB2A122J	CHIP R 1.2K J 1/10W	KPYMX	
R119			RK73FB2A123J	CHIP R 12K J 1/10W	KPYMX	
R122			RK73FB2A122J	CHIP R 1.2K J 1/10W	KPYMX	
R123			RK73FB2A123J	CHIP R 12K J 1/10W	KPYMX	
R124			RK73FB2A103J	CHIP R 10K J 1/10W	KPYMX	
R125,126			RK73FB2A332J	CHIP R 3.3K J 1/10W	KPYMX	
⚠ R127,128			RD14NB2E101J	RD 100 J 1/4W	KPYMX	
R131,132			RK73FB2A393J	CHIP R 39K J 1/10W	KPYMX	
R138,139			RK73FB2A561J	CHIP R 560 J 1/10W	YM	
R140,141			RK73FB2A473J	CHIP R 47K J 1/10W	YM	
R151			RK73FB2A821J	CHIP R 820 J 1/10W	KPYMX	
R152			RK73FB2A473J	CHIP R 47K J 1/10W	KPYMX	
R153			RK73FB2A472J	CHIP R 4.7K J 1/10W	KPYMX	
R156,157			RK73FB2A102J	CHIP R 1.0K J 1/10W	KPYMX	
R167			RK73FB2A104J	CHIP R 100K J 1/10W	KPYMX	
W46			R92-0670-05	CHIP R 0 OHM	KPYMX	
W48			R92-0670-05	CHIP R 0 OHM	KPYMX	
S101			S62-0034-05	SLIDE SWITCH CHANNEL SPACE	YM	
D3			HZS5.1N(B2)	ZENER DIODE	KPYMX	
D3			RD5.1ES(B2)	ZENER DIODE	KPYMX	
D4			HZS3.3N(B2)	ZENER DIODE	KPYMX	
D4			RD3.3ES(B2)	ZENER DIODE	KPYMX	
D7			MA111	DIODE	KPYMX	
D8			HSS104	DIODE	KPYMX	
D8			1SS133	DIODE	KPYMX	
D11			HZS8.2N(B2)	ZENER DIODE	KPYMX	
D11			RD8.2ES(B2)	ZENER DIODE	KPYMX	
D111,112			MA111	DIODE	KPYMX	

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NO.5

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
IC1			LA1831A-KEN	ANALOGUE IC			KPYMX	
IC2			LC7218	IC(PLL FREQUENCY SYNTHESIZER)			KPYMX	
IC12			NJM4565D	IC(OP AMP X2)			KPYMX	
Q1			2SC2714(R,O)	TRANSISTOR			KPYMX	
Q2			2SC1845(F,E)	TRANSISTOR			KPYMX	
Q3			2SC1740S(Q,R)	TRANSISTOR			KPYMX	
Q3			2SC2785(F,E)	TRANSISTOR			KPYMX	
Q7			2SC2412K	TRANSISTOR			KPYMX	
⚠ Q11			2SD863(E,F)	TRANSISTOR			KPYMX	
Q102			2SA1037K	TRANSISTOR			KPYMX	
Q104			2SA1037K	TRANSISTOR			KPYMX	
Q107,108			2SC2412K	TRANSISTOR			YM	
Q109,110			2SC2412K	TRANSISTOR			KPYMX	
Q111			2SA1037K	TRANSISTOR			KPYMX	
DT1			W02-2512-05	FM FRONT-END ASSY			KPYMX	
TUNER UNIT (X05-4532-70) T,E,G type								
C1,2			CK73FB1H103K	CHIP C	0.010UF	K	TEG	
C3			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	
C4			CK73FB1E473K	CHIP C	0.047UF	K	TEG	
C5			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	
C6			CK73FB1E473K	CHIP C	0.047UF	K	TEG	
C7			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	
C8			CE04LW1H010M	ELECTRO	1.0UF	50WV	TEG	
C9			CE04LW1HR47M	ELECTRO	0.47UF	50WV	TEG	
C10			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	TEG	
C11			CE04LW1HR47M	ELECTRO	0.47UF	50WV	TEG	
C12			CK73FB1E473K	CHIP C	0.047UF	K	TEG	
C13			CC73FCH1H220J	CHIP C	22PF	J	TEG	
C14			CE04LW1A101M	ELECTRO	100UF	10WV	TEG	
C15			CK73FB1H472K	CHIP C	4700PF	K	TEG	
C16			CE04LW1H010M	ELECTRO	1.0UF	50WV	TEG	
C17,18			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	
C19,20			CQ92FM1H273J	MYLAR	0.027UF	J	TEG	
C21			CK73FB1H103K	CHIP C	0.010UF	K	TEG	
C22			CC73FSL1H101J	CHIP C	100PF	J	TEG	
C23,24			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	TEG	
C25,26			CK73FB1H562K	CHIP C	5600PF	K	TEG	
C27			CK73FB1E473K	CHIP C	0.047UF	K	TEG	
C28			CC73FSL1H150J	CHIP C	15PF	J	TEG	
C29			CE04LW1H0R1M	ELECTRO	0.1UF	50WV	TEG	
C30			CE04LW1C470M	ELECTRO	47UF	16WV	TEG	
C31			CK73FB1E473K	CHIP C	0.047UF	K	TEG	
C32			CK73FB1H103K	CHIP C	0.010UF	K	TEG	
C33			CC73FCH1H270J	CHIP C	27PF	J	TEG	
C34			CC73FCH1H220J	CHIP C	22PF	J	TEG	
C35-38			CC73FSL1H101J	CHIP C	100PF	J	TEG	
C39			CE04LW1C470M	ELECTRO	47UF	16WV	TEG	
C40			CQ92FM1H223J	MYLAR	0.022UF	J	TEG	
C41			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV	TEG	
C42,43			CK73FB1H103K	CHIP C	0.010UF	K	TEG	
C44			CE04LW1A470M	ELECTRO	47UF	10WV	TEG	
C45			CE04LW1C470M	ELECTRO	47UF	16WV	TEG	
C46			CE04LW1H010M	ELECTRO	1.0UF	50WV	TEG	

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NO.6

Ref. No.	Address	New Parts	Parts No.	Description				Destination	Remarks
C47			CK73FB1H103K	CHIP C	0.010UF	K		TEG	
C48			CE04LW1H010M	ELECTRO	1.0UF	50WV		TEG	
C49			CK73FB1H103K	CHIP C	0.010UF	K		TEG	
C50			CC73FCH1H330J	CHIP C	33PF	J		TEG	
C51-54			CK73FB1H102K	CHIP C	1000PF	K		TEG	
C55			CK73FB1H222K	CHIP C	2200PF	K		TEG	
C56			CC73FCH1H060D	CHIP C	6.0PF	D		TEG	
C57			CC73FCH1H220J	CHIP C	22PF	J		TEG	
C58			CK73FB1E473K	CHIP C	0.047UF	K		TEG	
C60			CC73FSL1H101J	CHIP C	100PF	J		TEG	
C61			C91-0745-05	CERAMIC	100PF	K		TEG	
C62			CC45FSL1H020C	CERAMIC	2.0PF	C		TEG	
CN1	2D		E40-4234-05	FLAT CABLE CONNECTOR				TEG	
CN2	2D		E40-4295-05	FLAT CABLE CONNECTOR				TEG	
J1			E20-0321-05	LOCK TERMINAL BOARD			ANTENNA	TEG	
CF1,2			L72-0536-05	CERAMIC FILTER				TEG	
L1,2			L79-1219-05	LC FILTER				TEG	
L3			L30-0910-05	FM IFT				TEG	
L6			L39-1328-05	COMBINATION COIL				TEG	
L7			L30-0467-05	AM IFT				TEG	
L8,9			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				TEG	
L11			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				TEG	
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)				TEG	
X2			L78-0295-05	RESONATOR	(456kHz)			TEG	
R1			RK73FB2A681J	CHIP R	680	J	1/10W	TEG	
R2			RK73FB2A332J	CHIP R	3.3K	J	1/10W	TEG	
R3			RK73FB2A331J	CHIP R	330	J	1/10W	TEG	
R4			RK73FB2A100J	CHIP R	10	J	1/10W	TEG	
R5			RK73FB2A101J	CHIP R	100	J	1/10W	TEG	
R6			RK73FB2A331J	CHIP R	330	J	1/10W	TEG	
R7			RK73FB2A392J	CHIP R	3.9K	J	1/10W	TEG	
R8			RK73FB2A332J	CHIP R	3.3K	J	1/10W	TEG	
R9			RK73FB2A222J	CHIP R	2.2K	J	1/10W	TEG	
R10			RK73FB2A473J	CHIP R	47K	J	1/10W	TEG	
R11			RK73FB2A562J	CHIP R	5.6K	J	1/10W	TEG	
R12			RK73FB2A302J	CHIP R	3.0K	J	1/10W	TEG	
R13			RK73FB2A333J	CHIP R	33K	J	1/10W	TEG	
R14			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TEG	
R15			RK73FB2A473J	CHIP R	47K	J	1/10W	TEG	
R16			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R17			RK73FB2A392J	CHIP R	3.9K	J	1/10W	TEG	
R18			RK73FB2A333J	CHIP R	33K	J	1/10W	TEG	
R1 ,20			RK73FB2A222J	CHIP R	2.2K	J	1/10W	TEG	
R21,22			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TEG	
R23,24			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TEG	
R25			RK73FB2A561J	CHIP R	560	J	1/10W	TEG	
R26			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TEG	
R27			RK73FB2A473J	CHIP R	47K	J	1/10W	TEG	
R28			RK73FB2A821J	CHIP R	820	J	1/10W	TEG	
R29,30			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TEG	
R31			RK73FB2A822J	CHIP R	8.2K	J	1/10W	TEG	
R32-35			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TEG	
R36-38			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TEG	
R39			RK73FB2A822J	CHIP R	8.2K	J	1/10W	TEG	

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NO.7

Ref. No.	Address	New Parts	Parts No.	Description				Destination	Remarks
R40			RK73FB2A471J	CHIP R	470	J	1/10W	TEG	
R41			RK73FB2A821J	CHIP R	820	J	1/10W	TEG	
R42			RD14NB2E101J	RD	100	J	1/4W	TEG	
R43			RK73FB2A103J	CHIP R	10K	J	1/10W	TEG	
R44			RK73EB2B221J	CHIP R	220	J	1/8W	TEG	
R45			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TEG	
R46			RK73FB2A750J	CHIP R	75	J	1/10W	TEG	
R47			RK73FB2A681J	CHIP R	680	J	1/10W	TEG	
R48			RK73FB2A621J	CHIP R	620	J	1/10W	TEG	
R49			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R50			RK73FB2A471J	CHIP R	470	J	1/10W	TEG	
R51			RK73FB2A181J	CHIP R	180	J	1/10W	TEG	
R52			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R53			RK73FB2A103J	CHIP R	10K	J	1/10W	TEG	
R54,55			RK73FB2A223J	CHIP R	22K	J	1/10W	TEG	
R56			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R57			RK73FB2A473J	CHIP R	47K	J	1/10W	TEG	
R58			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R61			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TEG	
R62			RK73FB2A123J	CHIP R	12K	J	1/10W	TEG	
R63			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TEG	
R64			RK73FB2A123J	CHIP R	12K	J	1/10W	TEG	
R65			RK73FB2A683J	CHIP R	68K	J	1/10W	TEG	
R66			RK73FB2A473J	CHIP R	47K	J	1/10W	TEG	
R67			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R69			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TEG	
R70			RK73FB2A104J	CHIP R	100K	J	1/10W	TEG	
R71			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TEG	
R77			RK73EB2B103J	CHIP R	10K	J	1/8W	TEG	
R78			RD14NB2E470J	RD	47	J	1/4W	TEG	
R79			RS14KB3D221J	FL-PROOF RS	220	J	2W	TEG	
R81			RK73FB2A563J	CHIP R	56K	J	1/10W	TEG	
R84			RK73FB2A101J	CHIP R	100	J	1/10W	TEG	
W101-106			R92-0670-05	CHIP R	0 OHM			TEG	
W108-112			R92-0670-05	CHIP R	0 OHM			TEG	
W114-119			R92-0670-05	CHIP R	0 OHM			TEG	
W121,122			R92-0670-05	CHIP R	0 OHM			TEG	
W201-203			R92-0679-05	CHIP R	0 OHM			TEG	
W207,208			R92-0679-05	CHIP R	0 OHM			TEG	
D1,2			HSS104	DIODE				TEG	
D1,2			1SS133	DIODE				TEG	
D3			MTZJ5.1(B)	ZENER DIODE				TEG	
D3			RD5.1ES(B2)	ZENER DIODE				TEG	
D4			MTZJ8.2(B)	ZENER DIODE				TEG	
D4			RD8.2ES(B2)	ZENER DIODE				TEG	
D5			HSS104	DIODE				TEG	
D5			1SS133	DIODE				TEG	
D6			MTZJ3.3(B)	ZENER DIODE				TEG	
D6			RD3.3ES(B2)	ZENER DIODE				TEG	
D7			MA111	DIODE				TEG	
D8			1SS268	DIODE				TEG	
D9			MA111	DIODE				TEG	
IC1			LA1836	ANALOGUE IC				TEG	
IC2			LC7218	IC(PLL FREQUENCY SYNTHESIZER)				TEG	

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NO.8

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
IC3			M5223P	IC(OP AMP X2)			TEG	
Q1			2SC2714(R,O)	TRANSISTOR			TEG	
Q2			2SC1845(F,E)	TRANSISTOR			TEG	
Q3-5			2SC4081(R,S)	TRANSISTOR			TEG	
Q7,8			2SA1576(R,S)	TRANSISTOR			TEG	
Q9			2SD863(E,F)	TRANSISTOR			TEG	
Q10			2SA1576(R,S)	TRANSISTOR			TEG	
Q11,12			2SD1757K	TRANSISTOR			TEG	
Q16			2SC4081(R,S)	TRANSISTOR			TEG	
Q17			2SA1576(R,S)	TRANSISTOR			TEG	
Q18			2SC4081(R,S)	TRANSISTOR			TEG	
A1			W02-2509-05	FM FRONT-END ASSY			TEG	
MAIN AMP UNIT (X07-286X-XX)								
C5-8			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C9-12			CC45FSL1H221J	CERAMIC	220PF	J		
C13-20			CF92FV1H224J	MF-C	0.22UF	J		
C21,22			CK45FB1H681K	CERAMIC	680PF	K		
C25,26			CK45FB1H681K	CERAMIC	680PF	K		
C29-36			CE04LW2A010M	ELECTRO	1.0UF	100WV	YMXTEG	
C37-52			CE04LW2A2R2M	ELECTRO	2.2UF	100WV	KP	
C61-66			CK45FF1H472Z	CERAMIC	4700PF	Z		
C68			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C69,70			CK45FB1H681K	CERAMIC	680PF	K		
C71			CC45FSL1H221J	CERAMIC	220PF	J		
C72,73			CF92FV1H224J	MF-C	0.22UF	J		
C74,75			CE04LW2A010M	ELECTRO	1.0UF	100WV	YMXTEG	
C76-79			CE04LW2A2R2M	ELECTRO	2.2UF	100WV	KP	
C82			CK45FF1H472Z	CERAMIC	4700PF	Z		
C83-89			CK45FB1H102K	CERAMIC	1000PF	K		
C90			CE04LW1C220M	ELECTRO	22UF	16WV		
C91			CE04HW1A220M	NP-ELEC	22UF	10WV		
C92			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C93			CE04LW1E330M	ELECTRO	33UF	25WV		
C98-103			CK45FE2H103P	CERAMIC	0.010UF	P		
C104,105			C90-3581-05	ELECTRO	10000UF	80WV		
C106,107			C90-3582-05	ELECTRO	6800UF	71WV		
C108			CE04LW1C220M	ELECTRO	22UF	16WV		
C109,110			CE04LW1C101M	ELECTRO	100UF	16WV		
C111			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C112			CE04LW1A101M	ELECTRO	100UF	10WV		
C113-124			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C125,126			CE04LW1V222M	ELECTRO	2200UF	35WV		
C127,128			CE04LW1C222M	ELECTRO	2200UF	16WV		
C129			CE04LW1C102M	ELECTRO	1000UF	16WV		
C130			CE04LW1E222M	ELECTRO	2200UF	25WV		
CN1	1B		E40-0411-05	PIN ASSY				
CN2	1B		E40-0611-05	PIN ASSY				
CN3	1B		E40-3247-05	PIN ASSY				
CN4	2B		E40-4808-05	PIN ASSY				
CN15	1B		E40-4297-05	FLAT CABLE CONNECTOR				
CN16,17	1B		E40-3246-05	PIN ASSY				

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NO.9

Ref. No.	Add-ress	New Parts	Parts No.	Description				Desti-nation	Re-marks
J1		*	E70-0055-05	SCREW TERMINAL BOARD F.SP A/B					G
J1		*	E70-0060-05	SCREW TERMINAL BOARD F.SP A/B					
J2			E70-0049-05	SCREW TERMINAL BOARD S/C SP					G
J2		*	E70-0059-05	SCREW TERMINAL BOARD S/C SP					
687	1B		F20-1284-05	INSULATING BOARD					
⚠ F1-4			F05-1628-05	FUSE (UL)	(250V 1.6A)			KP	
⚠ F1-5			F05-1222-05	FUSE (SEMKO)	(250V T1.25A L)			YMXTEG	
⚠ F5			F04-2025-05	FUSE (UL)	(250V 2A)			KP	
-			J11-0098-05	WIRE CLAMPER					
CN5-14			J13-0075-05	FUSE CLIP					
L1-5			L39-0085-05	PHASE COMPENSATION COIL					
G	1B,2B		N89-3008-45	BINDING HEAD TAPTITE SCREW					
N	1B,1C		N09-0333-05	HEXAGON HD TAPPING SCREW M3X12					
P	1B		N09-3139-05	HEXAGON HD WITH WASHER M3X14					
S	1B		N89-3010-45	BINDING HEAD TAPTITE SCREW					
CP1-5			R90-0187-05	MULTI-COMP	0.22X2	K	5W		
R5,6			RD14NB2E100J	RD	10	J	1/4W		
R7,8			RD14NB2E4R7J	RD	4.7	J	1/4W		
R9,10			RD14NB2E100J	RD	10	J	1/4W		
R11,12			RD14NB2E4R7J	RD	4.7	J	1/4W		
R15,16			RD14NB2E221J	RD	220	J	1/4W		
R19,20			RD14NB2E2R2J	RD	2.2	J	1/4W		
R23,24			RD14NB2E2R2J	RD	2.2	J	1/4W		
R37-40			RS14KB3A100J	FL-PROOF RS	10	J	1W		
R49-52			RD14NB2E4R7J	RD	4.7	J	1/4W		
R58,59			RD14NB2E100J	RD	10	J	1/4W		
R66			RS14KB3A100J	FL-PROOF RS	10	J	1W		
R69			RD14NB2E4R7J	RD	4.7	J	1/4W		
R76			RS14KB3D472J	FL-PROOF RS	4.7K	J	2W		
R79-82			RS14KB3A562J	FL-PROOF RS	5.6K	J	1W		
R87-90			RS14KB3D272J	FL-PROOF RS	2.7K	J	2W		
⚠ R99,100			RS14KB3D390J	FL-PROOF RS	39	J	2W		
⚠ R102,103			RS14KB3D390J	FL-PROOF RS	39	J	2W		
⚠ R104,105			RD14NB2E2R2J	RD	2.2	J	1/4W		
⚠ R106			RD14NB2E1R0J	RD	1.0	J	1/4W		
K1			S51-2078-05	MAGNETIC RELAY					
K2-4			S76-0005-05	MAGNETIC RELAY					
TS1			S79-0011-05	THERMAL SWITCH					
TS2		*	S79-0020-05	THERMAL SWITCH					
D5-12			HSS104A	DIODE					
D5-12			1SS131	DIODE					
D13-16			HSS104	DIODE					
D13-16			1SS133	DIODE					
D18-24			HSS104A	DIODE					
D18-24			1SS131	DIODE					
D25			HZS6.8N(B2)	ZENER DIODE					
D25			RD6.8ES(B2)	ZENER DIODE					
D26			HZS4.7N(B2)	ZENER DIODE				KP	
D26			HZS6.8N(B2)	ZENER DIODE				YMXTEG	
D26			RD4.7ES(B2)	ZENER DIODE				KP	
D26			RD6.8ES(B2)	ZENER DIODE				YMXTEG	
⚠ D27,28			D5FB20-4002-L2	DIODE					
⚠ D29,30			KBP02ML-6127	DIODE					

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NO.10

Ref. No.	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
⚠ D31			D3SBA20F03	DIODE				
⚠ D31			RBV-402LFA	DIODE				
⚠ D32,33			S5688B	DIODE				
⚠ D32,33			1SR139-100	DIODE				
IC1			UPC1237HA	IC(POWER AMP)				
Q1-4			2SC4137(V,W)	TRANSISTOR				
Q7,8			2SC3944A(Q,R)	TRANSISTOR				
Q11,12			2SA1535A(Q,R)	TRANSISTOR				
⚠ Q13,14		*	2SD2401M * 5	TRANSISTOR				
⚠ Q15,16			2SD1718	TRANSISTOR				
⚠ Q17,18		*	2SB1570M * 5	TRANSISTOR				
⚠ Q19,20			2SB1163	TRANSISTOR				
Q21-24			2SC1845(F,E)	TRANSISTOR				
Q25			2SC4137(V,W)	TRANSISTOR				
⚠ Q28		*	2SD2401M * 5	TRANSISTOR				
⚠ Q29		*	2SB1570M * 5	TRANSISTOR				
Q30			2SC1845(F,E)	TRANSISTOR				
Q31			2SC1740S(Q,R)	TRANSISTOR				
Q31			2SC2785(F,E)	TRANSISTOR				
Q33			2SC1740S(Q,R)	TRANSISTOR				
Q33			2SC2785(F,E)	TRANSISTOR				
⚠ Q34			2SD2012	TRANSISTOR				
⚠ Q34			2SD2061(E,F)	TRANSISTOR				
Q35			2SA992(F,E)	TRANSISTOR				
Q36-39			2SC2003(L,K)	TRANSISTOR				
Q40-43			DTC124ES	DIGITAL TRANSISTOR				
Q40-43			UN4212	TRANSISTOR				
C1,2			CC45FSL1H101J	CERAMIC	100PF	J		
C3,4			CE04LW1H100M	ELECTRO	10UF	50WV		
C5-8			CK45FB1H102K	CERAMIC	1000PF	K		
C9,10			CE04LW0J331M	ELECTRO	330UF	6.3WV		
C11,12			CK45FB1H471K	CERAMIC	470PF	K		
C13,14			CK45FB1H102K	CERAMIC	1000PF	K		
C15,16			CQ93FMG1H123J	MYLAR	0.012UF	J		
C17,18			CQ93FMG1H332J	MYLAR	3300PF	J		
C19,20			CE04LW1H100M	ELECTRO	10UF	50WV		
C21,22			CC45FSL1H101J	CERAMIC	100PF	J		
C23-34			CC45FSL1H151J	CERAMIC	150PF	J		
C35,36			CE04LW1H100M	ELECTRO	10UF	50WV		
C37-40			CC45FSL1H101J	CERAMIC	100PF	J		
C41,42			CE04LW1H100M	ELECTRO	10UF	50WV		
C43-46			CC45FSL1H101J	CERAMIC	100PF	J		
C47,48			CE04LW1H100M	ELECTRO	10UF	50WV		
C49-52			CC45FSL1H101J	CERAMIC	100PF	J		
C53,54			CE04LW1H100M	ELECTRO	10UF	50WV		
C55-58			CC45FSL1H101J	CERAMIC	100PF	J		
C59-62			CF92FV1H224J	MF-C	0.22UF	J		
C81,82			CC45FSL1H221J	CERAMIC	220PF	J		
C101-104			CE04LW1A101M	ELECTRO	100UF	10WV		
C105-108			CQ93FMG1H681J	MYLAR	680PF	J		
C109,110			CC45FSL1H101J	CERAMIC	100PF	J		
C111,112			CQ93FMG1H822J	MYLAR	8200PF	J		
C113,114			CQ93FMG1H472J	MYLAR	4700PF	J		
C115,116			CQ93FMG1H332J	MYLAR	3300PF	J		

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NO.11

Ref. No.	Add-ress	New Parts	Parts No.	Description			Destination	Remarks
SURROUND UNIT (X08-2680-10)								
C117,118			CC45FSL1H101J	CERAMIC	100PF	J		
C119,120			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C131-134			CE04LW1A101M	ELECTRO	100UF	10WV		
C135			CQ93FMG1H681J	MYLAR	680PF	J		
C136			CQ93FMG1H123J	MYLAR	0.012UF	J		
C137			CQ93FMG1H681J	MYLAR	680PF	J		
C138			CQ93FMG1H123J	MYLAR	0.012UF	J		
C139,140			CC45FSL1H101J	CERAMIC	100PF	J		
C141			CQ93FMG1H822J	MYLAR	8200PF	J		
C142			CQ93FMG1H563J	MYLAR	0.056UF	J		
C143			CQ93FMG1H472J	MYLAR	4700PF	J		
C144			CQ93FMG1H822J	MYLAR	8200PF	J		
C145			CQ93FMG1H332J	MYLAR	3300PF	J		
C146			CQ93FMG1H333J	MYLAR	0.033UF	J		
C147,148			CC45FSL1H101J	CERAMIC	100PF	J		
C149,150			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C161-164			CE04LW1A101M	ELECTRO	100UF	10WV		
C165-168			CQ93FMG1H681J	MYLAR	680PF	J		
C169,170			CC45FSL1H101J	CERAMIC	100PF	J		
C171,172			CQ93FMG1H822J	MYLAR	8200PF	J		
C173,174			CQ93FMG1H472J	MYLAR	4700PF	J		
C175,176			CQ93FMG1H332J	MYLAR	3300PF	J		
C177,178			CC45FSL1H101J	CERAMIC	100PF	J		
C179,180			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C191,192			CE04LW1H100M	ELECTRO	10UF	50WV		
C193,194			CQ93FMG1H471J	MYLAR	470PF	J		
C195,196			CC45FSL1H101J	CERAMIC	100PF	J		
C199,200			CF92FV1H331K	MF-C	330PF	K		
C201,202			CC45FSL1H101J	CERAMIC	100PF	J		
C203,204			CQ93FMG1H332J	MYLAR	3300PF	J		
C211-222			CC45FSL1H151J	CERAMIC	150PF	J		
C231			CK45FB1H471K	CERAMIC	470PF	K		
C251,252			CE04LW1C470M	ELECTRO	47UF	16WV		
C253,254			CE04LW1H100M	ELECTRO	10UF	50WV		
C261,262			CK45FB1H471K	CERAMIC	470PF	K		
C263-268			CK45FB1H102K	CERAMIC	1000PF	K		
C269-272			CE04LW1H100M	ELECTRO	10UF	50WV		
C273-276			CK45FB1H102K	CERAMIC	1000PF	K		
C281,282			CQ93FMG1H104J	MYLAR	0.10UF	J		
C283			CE04LW1A101M	ELECTRO	100UF	10WV		
C284,285			CK45FB1H102K	CERAMIC	1000PF	K		
C286			CE04LW1A101M	ELECTRO	100UF	10WV		
C287			CK45FB1H102K	CERAMIC	1000PF	K		
C288			CE04LW1A101M	ELECTRO	100UF	10WV		
C289,290			CK45FB1H102K	CERAMIC	1000PF	K		
C291,292			CE04LW1E470M	ELECTRO	47UF	25WV		
C293,294			CE04LW1H100M	ELECTRO	10UF	50WV		
C295			CC45FSL1H470J	CERAMIC	47PF	J		
C296			CE04LW1A101M	ELECTRO	100UF	10WV		
C297,298			CK45FB1H102K	CERAMIC	1000PF	K		
C299,300			CE04LW1A101M	ELECTRO	100UF	10WV		
C301			CQ93FMG1H104J	MYLAR	0.10UF	J		
C302			CK45FB1H102K	CERAMIC	1000PF	K		

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NO.12

Ref. No.	Add-ress	New Parts	Parts No.	Description			Destination	Remarks
C303			CE04LW1H220M	ELECTRO	22UF	50WV		
C304,305			CQ93FMG1H104J	MYLAR	0.10UF	J		
C306			CK45FB1H102K	CERAMIC	1000PF	K		
C307			CE04LW1H220M	ELECTRO	22UF	50WV		
C308			CE04LW1A101M	ELECTRO	100UF	10WV		
C309			CQ93FMG1H104J	MYLAR	0.10UF	J		
C310			CE04LW1A101M	ELECTRO	100UF	10WV		
C311			CE04LW1H100M	ELECTRO	10UF	50WV		
C312			CQ93FMG1H104J	MYLAR	0.10UF	J		
C313			CK45FB1H102K	CERAMIC	1000PF	K		
C314			CQ93FMG1H104J	MYLAR	0.10UF	J		
C315			CK45FB1H102K	CERAMIC	1000PF	K		
C316			CQ93FMG1H104J	MYLAR	0.10UF	J		
C317			CK45FB1H102K	CERAMIC	1000PF	K		
C318,319			CC45FCH1H070D	CERAMIC	7.0PF	D		
C320			CK45FB1H102K	CERAMIC	1000PF	K		
C321,322			CC45FSL1H221J	CERAMIC	220PF	J		
C323,324			CC45FSL1H470J	CERAMIC	47PF	J		
C325-327			CC45FSL1H220J	CERAMIC	22PF	J		
C328			CC45FSL1H470J	CERAMIC	47PF	J		
C329			CK45FB1H471K	CERAMIC	470PF	K		
C331			CE04LW1A101M	ELECTRO	100UF	10WV		
C332			CQ93FMG1H104J	MYLAR	0.10UF	J		
C333			CK45FB1H102K	CERAMIC	1000PF	K		
C334			CQ93FMG1H104J	MYLAR	0.10UF	J		
C335			CK45FB1H102K	CERAMIC	1000PF	K		
C336			CQ93FMG1H104J	MYLAR	0.10UF	J		
C337			CK45FB1H102K	CERAMIC	1000PF	K		
C338			CE04LW1A101M	ELECTRO	100UF	10WV		
C339			CQ93FMG1H104J	MYLAR	0.10UF	J		
C340,341			CK45FB1H102K	CERAMIC	1000PF	K		
C342,343			CC45FSL1H221J	CERAMIC	220PF	J		
C344,345			CC45FSL1H220J	CERAMIC	22PF	J		
C346-349			CC45FSL1H470J	CERAMIC	47PF	J		
C351,352			CE04LW1A101M	ELECTRO	100UF	10WV		
C353,354			CK45FB1H102K	CERAMIC	1000PF	K		
C355			CE04LW1H100M	ELECTRO	10UF	50WV		
C356			CQ93FMG1H104J	MYLAR	0.10UF	J		
C357			CK45FB1H102K	CERAMIC	1000PF	K		
C358			CK45FB1H471K	CERAMIC	470PF	K		
C359,360			CK45FB1H102K	CERAMIC	1000PF	K		
C361,362			CE04LW1A101M	ELECTRO	100UF	10WV		
C363,364			CQ93FMG1H104J	MYLAR	0.10UF	J		
C365,366			CK45FB1H102K	CERAMIC	1000PF	K		
C367,368			CE04LW1A101M	ELECTRO	100UF	10WV		
C375			CE04LW1H100M	ELECTRO	10UF	50WV		
C376			CQ93FMG1H104J	MYLAR	0.10UF	J		
C377			CK45FB1H102K	CERAMIC	1000PF	K		
C378			CK45FB1H471K	CERAMIC	470PF	K		
C381,382			CE04LW1A101M	ELECTRO	100UF	10WV		
C383,384			CQ93FMG1H104J	MYLAR	0.10UF	J		
C385,386			CK45FB1H102K	CERAMIC	1000PF	K		
C387,388			CE04LW1A101M	ELECTRO	100UF	10WV		
C395			CE04LW1H100M	ELECTRO	10UF	50WV		
C396			CQ93FMG1H104J	MYLAR	0.10UF	J		

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NO.13

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
C397			CK45FB1H102K	CERAMIC 1000PF K		
C398			CK45FB1H471K	CERAMIC 470PF K		
C401,402			CE04LW1A101M	ELECTRO 100UF 10WV		
C403,404			CQ93FMG1H104J	MYLAR 0.10UF J		
C405,406			CK45FB1H102K	CERAMIC 1000PF K		
C407,408			CE04LW1A101M	ELECTRO 100UF 10WV		
C411-416			CK45FB1H102K	CERAMIC 1000PF K		
CN1	2C,2D		E40-4269-05	SOCKET FOR PIN ASSY		
CN2 ,3	2C,2D		E40-4271-05	SOCKET FOR PIN ASSY		
CN4	2C		E40-4630-05	PIN ASSY		
CN5	2D		E40-4269-05	SOCKET FOR PIN ASSY		
CN6	2D		E40-4267-05	SOCKET FOR PIN ASSY		
CN7	2C,2D		E40-4271-05	SOCKET FOR PIN ASSY		
CN8	2C		E40-4665-05	SOCKET FOR PIN ASSY		
CN9	2C,2D		E40-4296-05	FLAT CABLE CONNECTOR		
CN10	2C		E40-4609-05	PIN ASSY		
J1			E63-0068-15	PHONO JACK (2P)PHONO		
J2-5			E63-0047-15	PHONO JACK TAPE/AUX/CD/VIDEO		
J6			E11-0188-05	MINIATURE PHONE JACK(2P)S.CONT		
J10			J11-0098-05	WIRE CLAMPER		
L1-4			L92-0018-05	FERRITE CORE		
L5			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L6,7			L92-0018-05	FERRITE CORE		
L8			L40-4701-17	SMALL FIXED INDUCTOR(47UH,K)		
L9			L92-0018-05	FERRITE CORE		
L10 ,11			L40-4701-17	SMALL FIXED INDUCTOR(47UH,K)		
L12 -14			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L20 -25			L92-0044-05	FERRITE CORE		
X1			L77-2143-05	CRYSTAL RESONATOR(24.576MHz)		
R255,256			RD14NB2E221J	RD 220 J 1/4W		
R319-321			RS14KB3D220J	FL-PROOF RS 22 J 2W		
D1-20			HSS104	DIODE		
D1-20			1SS133	DIODE		
D21			HZS5.1N(B2)	ZENER DIODE		
D21			RD5.1ES(B2)	ZENER DIODE		
IC1			UPC4570C-A	IC(OP AMP X2)		
IC2			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC3			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC4			TC9163N	IC(BILATERAL SWITCH X16)		
IC5-9			NJM4565L	IC(OP AMP X2)		
IC5-9			NJM4565L-D	IC(OP AMP X2)		
IC11,12			NJM4565L	IC(OP AMP X2)		
IC11,12			NJM4565L-D	IC(OP AMP X2)		
IC13			AK5340-VS	MOS-IC		
IC14			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC14			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
IC21-26			NJM4565L	IC(OP AMP X2)		
IC21-26			NJM4565L-D	IC(OP AMP X2)		
IC27-29		*	PCM69AU	MOS-IC		
IC30-32		*	SM5841HS	MOS-IC		
IC33,34			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC33,34			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		

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NO.14

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
IC41		*	LC83016JE	MOS-IC		
IC42		*	LC83017JE	MOS-IC		
IC43,44			LC32464P-80	MEMORY IC		
IC45			NJM4565D	IC(OP AMP X2)		
IC45			NJM4565D-D	IC(OP AMP X2)		
Q1			2SA1534A	TRANSISTOR		
Q2-4			2SC3940A	TRANSISTOR		
Q5			DTA113ZS	DIGITAL TRANSISTOR		
Q5			UN4119	TRANSISTOR		
DISPLAY UNIT (X11-357X-XX)						
D3,4			B30-1290-05	LED		
C1,2			CQ93FMG1H683J	MYLAR 0.068UF J		
C3,4			CQ93FMG1H163J	MYLAR 0.016UF J		
C5,6			CQ93FMG1H682J	MYLAR 6800PF J		
C7,8			CQ93FMG1H273J	MYLAR 0.027UF J		
C9,10			CC45FSL1H220J	CERAMIC 22PF J		
C13,14			CC45FSL1H270J	CERAMIC 27PF J		
C15,16			CE04LW1V100M	ELECTRO 10UF 35WV		
C17-20			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C21,22			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C23,24			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C27,28			CC45FSL1H680J	CERAMIC 68PF J		
C29,30			CE04LW1V220M	ELECTRO 22UF 35WV		
C31-34			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C35,36			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C37,38			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C39			CC45FSL1H820J	CERAMIC 82PF J		
C40			CK45FB1H102K	CERAMIC 1000PF K		
C41,42			CE04LW1V220M	ELECTRO 22UF 35WV		
C43-46			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C47,48			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C49,50			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C51,52			CC45FSL1H820J	CERAMIC 82PF J		
C55,56			CE04LW1V220M	ELECTRO 22UF 35WV		
C57,58			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C59,60			CE04LW1V220M	ELECTRO 22UF 35WV		
C61-64			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C101,102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C103,104			CE04LW1E470M	ELECTRO 47UF 25WV		
C105-110			CK45FF1H103Z	CERAMIC 0.010UF Z		
C111-114			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C115,116			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117			CE04LW1E470M	ELECTRO 47UF 25WV		
C118			CE04LW1E470M	ELECTRO 47UF 25WV	PYMXTE	
C118			CE04LW1E470M	ELECTRO 47UF 25WV	G	
⚠ C119			C91-1488-05	MF 6800PF 250VAC		
⚠ C120			C91-1488-05	MF 6800PF 250VAC	PYMXTE	
⚠ C120			C91-1488-05	MF 6800PF 250VAC	G	
⚠ C121			C91-1488-05	MF 6800PF 250VAC		
C122			CC45FSL1H101J	CERAMIC 100PF J		
C151,152			CC45FSL1H330J	CERAMIC 33PF J		
C153,154			CC45FSL1H101J	CERAMIC 100PF J		
C155,156			CC45FSL1H150J	CERAMIC 15PF J		

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NO.15

	Ref. No.	Address	New Parts	Parts No.	Description				Destination	Remarks
	C157,158			CC45FSL1H101J	CERAMIC	100PF	J			
	C159,160			CC45FSL1H470J	CERAMIC	47PF	J			
	C161-166			CC45FSL1H101J	CERAMIC	100PF	J			
	C167,168			CC45FSL1H470J	CERAMIC	47PF	J			
	C169-176			CC45FSL1H101J	CERAMIC	100PF	J			
	C201-210			CC45FSL1H221J	CERAMIC	220PF	J			
	C211,212			CC45FSL1H150J	CERAMIC	15PF	J			
	C213,214			CC45FSL1H221J	CERAMIC	220PF	J			
	C216			CC45FSL1H221J	CERAMIC	220PF	J			
	C218			CC45FSL1H221J	CERAMIC	220PF	J			
	C304			CK45FF1H103Z	CERAMIC	0.010UF	Z			
	C305			C91-0733-05	CERAMIC	33PF	J			
	C306			CE04LW1HR22M	ELECTRO	0.22UF	50WV			
	C307-312			CK45FF1H103Z	CERAMIC	0.010UF	Z			
	C313			CE04LW1A101M	ELECTRO	100UF	10WV			
	C314			CK45FB1H222K	CERAMIC	2200PF	K			
	C315			CE04LW1A101M	ELECTRO	100UF	10WV			
	C316			C91-0757-05	CERAMIC	1000PF	K			
	C317			C91-0769-05	CERAMIC	0.010UF	K			
	C501			CE04LW1H010M	ELECTRO	1.0UF	50WV			
	C502			C90-1827-05	ELECTRO	0.047F	5.5WV			
	C503			CE04LW1A101M	ELECTRO	100UF	10WV			
	C504			CK45FF1H103Z	CERAMIC	0.010UF	Z			
	C505			CE04LW1H010M	ELECTRO	1.0UF	50WV			
	C506			CE04LW1A101M	ELECTRO	100UF	10WV			
	CN1	1C,2C		E40-4268-05	SOCKET FOR PIN ASSY					
	CN2	1C,2C		E40-4273-05	SOCKET FOR PIN ASSY					
	CN3	1C,2C		E40-4271-05	SOCKET FOR PIN ASSY					
	CN4	1C,2C		E40-4273-05	SOCKET FOR PIN ASSY					
	CN5	2B		E40-4219-05	FLAT CABLE CONNECTOR					
	CN6	1C		E40-4807-05	PIN ASSY					
⚠	J1			E03-0119-05	AC OUTLET				Y	
⚠	J2			E03-0148-05	AC OUTLET				KP	
⚠	J3			E03-0149-05	AC OUTLET				EG	
⚠	J4			E03-0108-05	AC OUTLET				M	
⚠	J5			E03-0310-05	AC OUTLET				T	
⚠	F1			F05-5025-05	FUSE (SEMKO)	(250V T5A L)			YMXTEG	
⚠	F1			F05-6029-05	FUSE (UL)	(125V 6A)			P	
⚠	F1			F53-0124-05	FUSE				K	
⚠	F2			F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)			EG	
⚠	F3			F05-5025-05	FUSE (SEMKO)	(250V T5A L)			YM	
	F3			F05-6029-05	FUSE (UL)	(125V 6A)			P	
	CN9-12			J13-0075-05	FUSE CLIP				EG	
	CN9,10			J13-0041-05	FUSE CLIP				K	
	CN9,10			J13-0075-05	FUSE CLIP				PYMXT	
	CN13,14			J13-0075-05	FUSE CLIP				PYM	
	L1			L40-1001-14	SMALL FIXED INDUCTOR(10UH,K)					
	L2			L92-0017-05	FERRITE CORE					
⚠	T1		*	L07-1898-05	POWER TRANSFORMER				YMXTEG	
⚠	T1		*	L07-1937-05	POWER TRANSFORMER				KP	
	X1			L78-0267-05	RESONATOR	(4.194MHz)				
⚠	R97,98			R92-0219-05	FUSE RESIST	10	G	1/4W	YMXTEG	
	R101,102			RD14NB2E391J	RD	390	J	1/4W		

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NO.16

	Ref. No.	Address	New Parts	Parts No.	Description				Destination	Remarks
	R103,104			RD14NB2E561J	RD	560	J	1/4W		
	R110			RD14NB2E470J	RD	47	J	1/4W	PYMXTE	
	R110			RD14NB2E470J	RD	47	J	1/4W	G	
	R111			RD14NB2E470J	RD	47	J	1/4W		
⚠	R112			R92-1769-05	CARBON	3.3M	J	1/2W	KP	
⚠	K1			S76-0002-05	MAGNETIC RELAY				P	
⚠	K1,2			S76-0002-05	MAGNETIC RELAY				YMXTEG	
⚠	K2			S76-0002-05	MAGNETIC RELAY				K	
⚠	K2			S76-0009-05	MAGNETIC RELAY				P	
	S1,2			S62-0034-05	SLIDE SWITCH					
	S3-25			S40-1064-05	PUSH SWITCH					
	S26-28			S40-1064-05	PUSH SWITCH				TEG	
	S29-47			S40-1064-05	PUSH SWITCH					
⚠	S51			S31-2322-05	SLIDE SWITCH	110-/220-/230-			YM	
⚠	S52			S62-0001-05	SLIDE SWITCH	110-/220-			YM	
	S48			T99-0547-05	SPEED DETECTOR INPUT SELECTOR					
	S49			T99-0548-05	SPEED DETECTOR VOLUME CONTROL					
	S50			T99-0530-05	ROTARY ENCODER MULTI CONTROL					
	D1,2			HZS8.2N(B2)	ZENER DIODE					
	D1,2			RD8.2ES(B2)	ZENER DIODE					
	D5,6			HZS13N(B2)	ZENER DIODE					
	D5,6			RD13ES(B2)	ZENER DIODE					
	D7			HSS104	DIODE					
	D7			1SS133	DIODE					
	D10-17			HSS104	DIODE					
	D10-17			1SS133	DIODE					
	D18			HSS104A	DIODE					
	D18			1SS131	DIODE					
	D19			HSS104A	DIODE				PYMXTE	
	D19			HSS104A	DIODE				G	
	D19			1SS131	DIODE				PYMXTE	
	D19			1SS131	DIODE				G	
	D20-24			HSS104	DIODE					
	D20-24			1SS133	DIODE					
	D51,52			HSS104	DIODE					
	D51,52			1SS133	DIODE					
	D101-109			HSS104	DIODE					
	D101-109			1SS133	DIODE					
	D110,111			HSS104	DIODE				YMXTEG	
	D110,111			1SS133	DIODE				YMXTEG	
	ED1		*	FIP15XM1AA	INDICATOR TUBE					
	IC1			TC9163N	IC(BILATERAL SWITCH X16)					
	IC2-4			TC9213P	IC(2CH ELECTRONIC VOLUME)					
	IC5			TC9184P	IC(ELECTRO TONE CONTROL)					
	IC6-12			NJM4565D	IC(OP AMP X2)					
	IC13		*	UPD78056GC-075	MI-COM IC					
	IC14			LC75711E	IC(DISPLAY DRIVER)					
	IC15			TC74HC08AP	IC(QUAD AND GATE)					
	IC16			S-806D-Z	ANALOGUE IC					
	Q1-12			2SC2878(B)	TRANSISTOR					
	Q29			2SD2012	TRANSISTOR					
	Q30			2SB1375	TRANSISTOR					
	Q52			2SC2003(L,K)	TRANSISTOR					
	Q53			2SC1740S(Q,R)	TRANSISTOR					

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NO.17

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
Q53			2SC2785(F,E)	TRANSISTOR				
Q54			2SC2003(L,K)	TRANSISTOR				
A1			W02-2516-05	ELECTRIC CIRCUIT MODULE				
ACCESSORY UNIT (X13-733X-XX)								
C1,2			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C3,4			CC45FSL1H101J	CERAMIC	100PF	J		
C5,6			CK45FB1H102K	CERAMIC	1000PF	K		
C7,8			CK45FF1H472Z	CERAMIC	4700PF	Z		
C9			CE04LW1E331M	ELECTRO	330UF	25WV		
C10			CE04LW1E470M	ELECTRO	47UF	25WV		
C11,12			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C13,14			C91-0745-05	CERAMIC	100PF	K		
C15,16			C90-3253-05	ELECTRO	1.0UF	50WV		
C17,18			C90-3232-05	ELECTRO	4.7UF	25WV		
C19,20			CC45FSL1H101J	CERAMIC	100PF	J		
C21,22			CE04LW1E470M	ELECTRO	47UF	25WV		
C23,24			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C25,26			CK45FB1H102K	CERAMIC	1000PF	K		
C27			CE04LW1V100M	ELECTRO	10UF	35WV		
C31,32			CE04LW1A101M	ELECTRO	100UF	10WV		
C33,34			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C35,36			CK45FB1H102K	CERAMIC	1000PF	K		
C37			CE04LW1V100M	ELECTRO	10UF	35WV		
C38			CQ93FMG1H822J	MYLAR	8200PF	J		
C39,40			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C41			CE04LW1A101M	ELECTRO	100UF	10WV		
C42			CQ93FMG1H104J	MYLAR	0.10UF	J		
C43			CE04LW1V100M	ELECTRO	10UF	35WV		
C44			CK45FB1H102K	CERAMIC	1000PF	K		
C45			CE04LW1V100M	ELECTRO	10UF	35WV		
C51,52			CE04LW1V100M	ELECTRO	10UF	35WV		
C53-56			CE04LW1E470M	ELECTRO	47UF	25WV		
C71-74			CE04HW1H4R7M	NP-ELEC	4.7UF	50WV		
C81,82			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C101			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C102,103			C91-0757-05	CERAMIC	1000PF	K		
C151			CE04LW1E102M	ELECTRO	1000UF	25WV		
C152			CE04LW1V100M	ELECTRO	10UF	35WV		
C153			CE04LW1A101M	ELECTRO	100UF	10WV		
C154-157			CE04LW2A101M	ELECTRO	100UF	100WV		
C158			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C159-161			CE04LW1H100M	ELECTRO	10UF	50WV		
C162			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C163			CE04LW1E221M	ELECTRO	220UF	25WV		
C164,165			CE04LW1A101M	ELECTRO	100UF	10WV		
C166			CE04LW1H100M	ELECTRO	10UF	50WV		
C191			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C192-194			CK45FB1H102K	CERAMIC	1000PF	K		
C195			CC45FSL1H470J	CERAMIC	47PF	J		
C201			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C202			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	
C203			CK45FF1H103Z	CERAMIC	0.010UF	Z	TEG	
C204			CE04LW1V100M	ELECTRO	10UF	35WV	TEG	

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NO.18

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
C205			CK45FF1H103Z	CERAMIC	0.010UF	Z	TEG	
C206			CK45FB1H561K	CERAMIC	560PF	K	TEG	
C207			CC45FCH1H470J	CERAMIC	47PF	J	TEG	
C208			CC45FCH1H220J	CERAMIC	22PF	J	TEG	
C209			CC45FSL1H331J	CERAMIC	330PF	J	TEG	
C210			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	TEG	
C211			CK45FF1H103Z	CERAMIC	0.010UF	Z	TEG	
C212			CE04LW1A101M	ELECTRO	100UF	10WV		
CN1	2C		E40-4293-05	FLAT CABLE CONNECTOR				
CN2	2C		E40-4807-05	PIN ASSY				
CN3	2C		E40-4219-05	FLAT CABLE CONNECTOR				
CN4	2C		E40-4258-05	PIN ASSY				
CN5	2C		E40-4263-05	PIN ASSY				
CN6	2C,2D		E40-4261-05	PIN ASSY				
CN7	2C,2D		E40-4263-05	PIN ASSY				
CN8	2C		E40-4629-05	PIN ASSY				
CN9 ,10	2C		E40-4261-05	PIN ASSY				
CN11	2C,2D		E40-4259-05	PIN ASSY				
CN12	2C		E40-4664-05	PIN ASSY				
CN13	2C		E40-4261-05	PIN ASSY				
CN14	2C,2D		E40-4257-05	PIN ASSY				
CN15	2C,2D		E40-4259-05	PIN ASSY				
CN16,17	2C,2D		E40-4263-05	PIN ASSY				
CN18,19	2C,2D		E40-4262-05	PIN ASSY				
CN20	2B		E40-4297-05	FLAT CABLE CONNECTOR				
J1			E63-0129-05	PHONO JACK VIDEO/AUDIO				
J2			E56-0012-05	CYLINDRICAL RECEPTACLE S-VIDEO				
J3			E11-0208-05	PHONE JACK PHONES				
L1			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)				
L2-4			L92-0017-05	FERRITE CORE				
L101			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)				
L102-104			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)			TEG	
L105-108			L92-0017-05	FERRITE CORE				
L109			L92-0017-05	FERRITE CORE			TEG	
X1			L78-0267-05	RESONATOR (4.194MHz)				
X2			L78-0244-05	RESONATOR (4.000M)			TEG	
X3			L77-2002-05	CRYSTAL RESONATOR(4.332MHz)			TEG	
G	2D		N89-3008-45	BINDING HEAD TAPTITE SCREW				
T	2D		N89-3010-46	BINDING HEAD TAPTITE SCREW				
CP1			R90-0492-05	MULTI-COMP	100KX8	J 1/6W		
⚠ R15,16			RD14NB2E101J	RD	100	J 1/4W		
R4 ,41			RD14NB2E103J	RD	10K	J 1/4W		
⚠ R45,46		*	RD14NB2E2R7J	RD	2.7	J 1/4W		
R53,54			RD14NB2E182J	RD	1.8K	J 1/4W		
R72			RD14NB2E182J	RD	1.8K	J 1/4W		
R81			RS14KB3A820J	FL-PROOF RS	82	J 1W		
R82			RS14KB3A391J	FL-PROOF RS	390	J 1W		
R89			RS14KB3A820J	FL-PROOF RS	82	J 1W		
R104			RS14KB3D121J	FL-PROOF RS	120	J 2W		
R105,106			RS14KB3D181J	FL-PROOF RS	180	J 2W		
R139			RD14NB2E472J	RD	4.7K	J 1/4W		
R141			RD14NB2E472J	RD	4.7K	J 1/4W		
R142			RD14NB2E222J	RD	2.2K	J 1/4W		
⚠ R155,156			RD14NB2E100J	RD	10	J 1/4W		

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NO.19

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
⚠ R157			RD14NB2E3R3J	RD	3.3	J 1/4W		
D1-6			HSS104	DIODE				
D1-6			1SS133	DIODE				
D11,12			HZS15N(B)	ZENER DIODE				
D11,12			RD15ES(B)	ZENER DIODE				
D13			HZS5.1S(B2)	ZENER DIODE				
D13			RD5.1JS(B2)	ZENER DIODE				
D21-23			HZS3.9N(B2)	ZENER DIODE				
D21-23			RD3.9ES(B2)	ZENER DIODE				
D31			HZS3.3N(B2)	ZENER DIODE				
D31			RD3.3ES(B2)	ZENER DIODE				
D32			HZS5.1S(B2)	ZENER DIODE				
D32			RD5.1JS(B2)	ZENER DIODE				
D51			HZS5.1S(B2)	ZENER DIODE				
D51			RD5.1JS(B2)	ZENER DIODE				
D53			HZS3.9N(B2)	ZENER DIODE				
D53			RD3.9ES(B2)	ZENER DIODE				
⚠ D54-56			S5688B	DIODE				
⚠ D54-56			1SR139-100	DIODE				
⚠ D57-63			HSS104	DIODE				
⚠ D57-63			1SS133	DIODE				
D101-104			HSS104	DIODE				
D101-104			1SS133	DIODE				
D105,106			HSS104	DIODE			TEG	
D105,106			1SS133	DIODE			TEG	
D107,108			HSS104	DIODE				
D107,108			1SS133	DIODE				
IC1-4			NJM4565D-D	IC(OP AMP X2)				
IC5		*	UPD78053GC-059	MI-COM IC				
IC6			LC6543H-4D68	MI-COM IC			TEG	
IC7			SAA6579	ANALOGUE IC			TEG	
IC8			NJM4558D	ANALOGUE IC				
IC9			NJM4580L	IC(OP AMP X2)				
Q1-4			DTC143TS	DIGITAL TRANSISTOR				
Q1-4			UN4216	TRANSISTOR				
Q5-8			DTA124ES	DIGITAL TRANSISTOR				
Q5-8			UN4112	TRANSISTOR				
Q9,10			2SC2878(B)	TRANSISTOR				
⚠ Q11			2SB1370	TRANSISTOR				
⚠ Q11			2SB1375	TRANSISTOR				
⚠ Q12			2SD2012	TRANSISTOR				
⚠ Q12			2SD2061	TRANSISTOR				
Q13			2SC1740S(Q,R)	TRANSISTOR				
Q13			2SC2785(F,E)	TRANSISTOR				
Q14			2SA1175(F,E)	TRANSISTOR				
Q14			2SA933S(Q,R)	TRANSISTOR				
⚠ Q15			2SB1370	TRANSISTOR				
⚠ Q15			2SB1375	TRANSISTOR				
⚠ Q16			2SD2012	TRANSISTOR				
⚠ Q16			2SD2061	TRANSISTOR				
Q17			2SC1740S(Q,R)	TRANSISTOR				
Q17			2SC2785(F,E)	TRANSISTOR				
Q18			2SA1175(F,E)	TRANSISTOR				

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NO.20

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
Q18			2SA933S(Q,R)	TRANSISTOR				
⚠ Q19			2SB1370	TRANSISTOR				
⚠ Q19			2SB1375	TRANSISTOR				
Q20			2SC1740S(Q,R)	TRANSISTOR				
Q20			2SC2785(F,E)	TRANSISTOR				
⚠ Q27			2SB1370	TRANSISTOR				
⚠ Q27			2SB1375	TRANSISTOR				
⚠ Q28			2SD2012	TRANSISTOR				
⚠ Q28			2SD2061	TRANSISTOR				
Q30			DTC113ZS	DIGITAL TRANSISTOR				
Q30			UN4219	TRANSISTOR				
⚠ Q41			2SA1110(R,S)	TRANSISTOR				
⚠ Q42 44			2SA954(L,K)	TRANSISTOR				
⚠ Q45,46			2SD2012	TRANSISTOR				
VIDEO CONTROL UNIT (X14-400X-XX)								
C1,2			CE04LW1V220M	ELECTRO	22UF	35WV		
C3,4			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C5,6			CC45FSL1H820J	CERAMIC	82PF	J		
C7-10			CC45FSL1H101J	CERAMIC	100PF	J		
C11,12			CC45FSL1H221J	CERAMIC	220PF	J		
C13,14			CK45FB1H222K	CERAMIC	2200PF	K		
C15,16			CC45FSL1H470J	CERAMIC	47PF	J		
C17-24			CC45FSL1H221J	CERAMIC	220PF	J		
C25,26			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C27,28			CC45FSL1H101J	CERAMIC	100PF	J		
C29,30			CE04LW1V330M	ELECTRO	33UF	35WV		
C31,32			CK45FB1H102K	CERAMIC	1000PF	K		
C33,34			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C41,42			CE04LW1V220M	ELECTRO	22UF	35WV		
C43,44			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C45,46			CC45FSL1H820J	CERAMIC	82PF	J		
C47-50			CC45FSL1H101J	CERAMIC	100PF	J		
C51,52			CC45FSL1H331J	CERAMIC	330PF	J		
C53,54			CK45FB1H222K	CERAMIC	2200PF	K		
C55,56			CC45FSL1H560J	CERAMIC	56PF	J		
C57-64			CC45FSL1H221J	CERAMIC	220PF	J		
C65,66			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C67,68			CC45FSL1H101J	CERAMIC	100PF	J		
C69,70			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C7,72			CE04LW1V330M	ELECTRO	33UF	35WV		
C81			CE04LW1V220M	ELECTRO	22UF	35WV		
C82			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C83			CC45FSL1H820J	CERAMIC	82PF	J		
C84,85			CC45FSL1H101J	CERAMIC	100PF	J		
C86			CC45FSL1H221J	CERAMIC	220PF	J		
C87			CK45FB1H222K	CERAMIC	2200PF	K		
C88			CC45FSL1H470J	CERAMIC	47PF	J		
C89-92			CC45FSL1H221J	CERAMIC	220PF	J		
C93			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C94,95			CC45FSL1H101J	CERAMIC	100PF	J		
C96			CE04LW1V330M	ELECTRO	33UF	35WV		
C97			CK45FB1H102K	CERAMIC	1000PF	K		
C98			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C111,112			CE04LW1J330M	ELECTRO	33UF	63WV		

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NO.21

Ref. No.	Add-ress	New Parts	Parts No.	Description		Destination	Remarks
C113,114			CE04LW1J100M	ELECTRO	10UF 63WV		
C115,116			CE04LW1H330M	ELECTRO	33UF 50WV		
C117,118			CE04LW1H100M	ELECTRO	10UF 50WV		
C119,120			CE04LW1V220M	ELECTRO	22UF 35WV		
C123			CE04LW1V330M	ELECTRO	33UF 35WV		
C301			CE04LW1V330M	ELECTRO	33UF 35WV		
C302			CK45FF1H103Z	CERAMIC	0.010UF Z		
C303			CC45FSL1H100D	CERAMIC	10PF D		
C304-307			CE04LW1V100M	ELECTRO	10UF 35WV		
C308			CE04LW1V330M	ELECTRO	33UF 35WV		
C309			CK45FF1H103Z	CERAMIC	0.010UF Z		
C310-312			CE04LW1A470M	ELECTRO	47UF 10WV		
C313			CC45FCH1H150J	CERAMIC	15PF J	TEG	
C313			CC45FCH1H180J	CERAMIC	18PF J	KPYMX	
C314			CC45FCH1H220J	CERAMIC	22PF J		
C315			CK45FF1H103Z	CERAMIC	0.010UF Z		
C316			CE04LW1V100M	ELECTRO	10UF 35WV		
C317-320			CC45FSL1H101J	CERAMIC	100PF J		
C321,322			CC45FCH1H390J	CERAMIC	39PF J		
C323			CE04LW1V100M	ELECTRO	10UF 35WV		
C324			CK45FF1H103Z	CERAMIC	0.010UF Z		
C325			CK45FF1H223Z	CERAMIC	0.022UF Z	KPYMX	
C325			CK45FF1H473Z	CERAMIC	0.047UF Z	TEG	
C326			CE04LW1H010M	ELECTRO	1.0UF 50WV	TEG	
C326			CE04LW1H2R2M	ELECTRO	2.2UF 50WV	KPYMX	
C327			CQ93FMG1H332J	MYLAR	3300PF J	KPYMX	
C327			CQ93FMG1H472J	MYLAR	4700PF J	TEG	
C328			CC45FCH1H221J	CERAMIC	220PF J		
C329			CK45FF1H103Z	CERAMIC	0.010UF Z		
C330,331			CE04LW1V100M	ELECTRO	10UF 35WV		
C332			CE04LW1H010M	ELECTRO	1.0UF 50WV		
C333			CK45FB1H561K	CERAMIC	560PF K		
C334			CK45FB1H471K	CERAMIC	470PF K		
C335			CE04LW1H4R7M	ELECTRO	4.7UF 50WV		
C336-339			CK45FF1H103Z	CERAMIC	0.010UF Z		
C340			CE04LW1V100M	ELECTRO	10UF 35WV		
C341			CK45FF1H103Z	CERAMIC	0.010UF Z		
C342			CC45FCH1H220J	CERAMIC	22PF J		
C343			CC45FSL1H100D	CERAMIC	10PF D		
C344-346			CE04LW1V100M	ELECTRO	10UF 35WV		
C347-349			CK45FF1H103Z	CERAMIC	0.010UF Z		
C350,351			CE04LW1V100M	ELECTRO	10UF 35WV		
C352			CK45FF1H103Z	CERAMIC	0.010UF Z		
C353			CE04LW1V100M	ELECTRO	10UF 35WV		
C354			CK45FF1H103Z	CERAMIC	0.010UF Z		
C355			CE04LW1H100M	ELECTRO	10UF 50WV		
C368			CE04LW1V330M	ELECTRO	33UF 35WV		
C369			CK45FF1H103Z	CERAMIC	0.010UF Z		
C370-379			CE04LW1V100M	ELECTRO	10UF 35WV		
C380,381			CK45FF1H103Z	CERAMIC	0.010UF Z		
C382,383			CC45FSL1H470J	CERAMIC	47PF J		
C384-391			CK45FF1H103Z	CERAMIC	0.010UF Z		
C392-395			C91-0737-05	CERAMIC	47PF J		
CN1	1B		E40-4607-05	PIN ASSY			

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NO.23

Ref. No.	Add-ress	New Parts	Parts No.	Description	Destination	Remarks
D21			1SS133	DIODE		
D31-34			HZS16N(B2)	ZENER DIODE		
D31-34			RD16ES(B2)	ZENER DIODE		
D35-40			HZS15N(B2)	ZENER DIODE		
D35-40			RD15ES(B2)	ZENER DIODE		
D41,42			HZS11N(B2)	ZENER DIODE		
D41,42			RD11ES(B2)	ZENER DIODE		
D43			HSS104	DIODE		
D43			1SS133	DIODE		
D44			HSS104A	DIODE		
D44			1SS131	DIODE		
D45			HZS11N(B2)	ZENER DIODE		
D45			RD11ES(B2)	ZENER DIODE		
D46			HZS5.1S(B2)	ZENER DIODE		
D46			RD5.1JS(B2)	ZENER DIODE		
D301-314			HSS104	DIODE		
D301-314			1SS133	DIODE		
D321-348			HSS104	DIODE		
D321-348			1SS133	DIODE		
IC1			MC14576CP	ANALOGUE IC		
IC2			MC14577CP	ANALOGUE IC		
IC3			MC14576CP	ANALOGUE IC		
IC5-7			TC4051BP	IC(8CH MPX/ DE-MPX)		
IC8,9			NJM2279D	IC(VIDEO IC)		
IC10,11			TC4053BP	IC(3-INPUT 2CH MPX/DE-MPX)		
IC12			UPD6452GT-603	MOS-IC		
IC13			MM1067XD	IC(SYNC SEPARATION)		
Q1-4			2SC1845(F,E)	TRANSISTOR		
Q9-12			2SA992(F,E)	TRANSISTOR		
Q13 ,14			2SC1845(F,E)	TRANSISTOR		
Q15 ,16			2SC1740S(Q,R)	TRANSISTOR		
Q15 ,16			2SC2785(F,E)	TRANSISTOR		
Q21-24			2SC1845(F,E)	TRANSISTOR		
Q29-32			2SA992(F,E)	TRANSISTOR		
Q33,34			2SC1845(F,E)	TRANSISTOR		
Q35,36			2SC1740S(Q,R)	TRANSISTOR		
Q35,36			2SC2785(F,E)	TRANSISTOR		
Q51,52			2SC1845(F,E)	TRANSISTOR		
Q55,56			2SA992(F,E)	TRANSISTOR		
Q57			2SC1845(F,E)	TRANSISTOR		
Q58			2SC1740S(Q,R)	TRANSISTOR		
Q58			2SC2785(F,E)	TRANSISTOR		
⚠ Q71			2SC3944(Q,R)	TRANSISTOR		
⚠ Q72			2SA1535(Q,R)	TRANSISTOR		
⚠ Q73			2SC3944(Q,R)	TRANSISTOR		
⚠ Q74			2SA1535(Q,R)	TRANSISTOR		
Q75,76			2SC1845(F,E)	TRANSISTOR		
⚠ Q77			2SC3944(Q,R)	TRANSISTOR		
Q301-303			2SD1302(S,T)	TRANSISTOR		
Q304-306			DTA124ES	DIGITAL TRANSISTOR		
Q304-306			UN4112	TRANSISTOR		
Q307-309			DTC113ZS	DIGITAL TRANSISTOR		
Q307-309			UN4219	TRANSISTOR		
Q310			2SC1740S(Q,R)	TRANSISTOR		
Q310			2SC2785(F,E)	TRANSISTOR		

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NO.22

Ref. No.	Add-ress	New Parts	Parts No.	Description				Destination	Remarks
CN2	1B		E40-4807-05	PIN ASSY					
CN3	1B		E40-4294-05	FLAT CABLE CONNECTOR					
CN4	1B		E40-4608-05	PIN ASSY					
CN11,12	2D		E40-4273-05	SOCKET FOR PIN ASSY					
CN13,14	2D		E40-4272-05	SOCKET FOR PIN ASSY					
J1			E63-0068-15	PHONO JACK FRONT					
J2			E63-0046-15	PHONO JACK FRONT/SURROUND					
J3			E63-0114-05	PHONO JACK SURR/CENTER/S.W					
J4			E63-0116-05	PHONO JACK CENTER					
J11		*	E56-0014-05	CYLINDRICAL RECEPTACLE MONITOR					
J12 ,13			E56-0011-05	CYLINDRICAL RECEPTACLE S-VIDEO					
J14			E63-0052-15	PHONO JACK VIDEO1/VIDEO2					
J15			E63-0094-05	PHONO JACK VIDEO3/4 MONITOR OUT					
689	1B		F01-1807-05	HEAT SINK					
			J11-0098-05	WIRE CLAMPER					
L301			L40-2201-17	SMALL FIXED INDUCTOR(22UH,K)					
X1			L77-1182-05	CRYSTAL RESONATOR(14.31818M)				KPYMX	
X1			L77-2107-05	CRYSTAL RESONATOR(17,73447M)				TEG	
X2			L78-0272-05	RESONATOR	(503.5K)			KPYMX	
X2			L78-0300-05	RESONATOR	(500K)			TEG	
R21 ,22			RD14NB2E221J	RD	220	J	1/4W		
R23 -26			RD14NB2E271J	RD	270	J	1/4W		
R27 ,28			RD14NB2E822J	RD	8.2K	J	1/4W		
R71 ,72			RD14NB2E221J	RD	220	J	1/4W		
R73 -76			RD14NB2E271J	RD	270	J	1/4W		
R77 ,78			RD14NB2E822J	RD	8.2K	J	1/4W		
R111			RD14NB2E221J	RD	220	J	1/4W		
R112,113			RD14NB2E271J	RD	270	J	1/4W		
R114			RD14NB2E822J	RD	8.2K	J	1/4W		
R131,132			RD14NB2E392J	RD	3.9K	J	1/4W		
R141,142			RD14NB2E392J	RD	3.9K	J	1/4W		
R145			RD14NB2E151J	RD	150	J	1/4W		
R149			RD14NB2E181J	RD	180	J	1/4W		
R155			RS14KB3D102J	FL-PROOF RS	1.0K	J	2W		
R156			RS14KB3A471J	FL-PROOF RS	470	J	1W		
⚠ R158,159			RD14NB2E3R3J	RD	3.3	J	1/4W		
⚠ R161			RS14KB3D182J	FL-PROOF RS	1.8K	J	2W		
VR1,2		*	R32-0016-05	SEMI FIXED VARIABLE RESISTOR					
VR3,4			R12-1617-05	TRIMMING POT.(2.2K)					
VR5,6		*	R32-0016-05	SEMI FIXED VARIABLE RESISTOR					
VR7,8			R12-1616-05	TRIMMING POT.(1K)					
VR9		*	R32-0016-05	SEMI FIXED VARIABLE RESISTOR					
VR10			R12-1617-05	TRIMMING POT.(2.2K)					
D1-3			HSS104	DIODE					
D1-3			1SS133	DIODE					
D5			HZS5.1S(B2)	ZENER DIODE					
D5			RD5.1JS(B2)	ZENER DIODE					
D11-13			HSS104	DIODE					
D11-13			1SS133	DIODE					
D15			HZS5.1S(B2)	ZENER DIODE					
D15			RD5.1JS(B2)	ZENER DIODE					
D21			HSS104	DIODE					

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NO.24

Ref. No.	Add-ress	New Parts	Parts No.	Description	Destination	Remarks
Q311,312			2SA1175(F,E)	TRANSISTOR		
Q311,312			2SA933S(Q,R)	TRANSISTOR		
Q321,322			2SD1302(S,T)	TRANSISTOR		
Q323			DTC113ZS	DIGITAL TRANSISTOR		
Q323			UN4219	TRANSISTOR		
Q324			DTA124ES	DIGITAL TRANSISTOR		
Q324			UN4112	TRANSISTOR		
Q325,326			2SC1740S(Q,R)	TRANSISTOR		
Q325,326			2SC2785(F,E)	TRANSISTOR		

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DESTINATION OF UNIT NO.

UNIT	UNIT NO.	Destination
TUNER UNIT	X05-4460-13 X05-4460-23 X05-4460-73 X05-4532-70	KS,PS YS,MS XS TS,ES,GS
MAIN AMP UNIT	X07-2860-10 X07-2860-21 X07-2861-01	KS YS,MS,XS,TS,ES,GS PS
SURROUND UNIT	X08-2680-10	KS,PS,YS,MS,XS,TS,ES,GS
DISPLAY UNIT	X11-3570-10 X11-3570-21 X11-3570-51 X11-3570-71 X11-3571-01 X11-3572-71 X11-3572-91	KS MS TS XS PS ES,GS YS
ACCESSORY UNIT	X13-7330-10 X13-7332-71	KS,PS,YS,MS,XS TS,ES,GS
VIDEO CONTROL UNIT	X14-4000-10 X14-4002-71	KS,PS,YS,MS,XS TS,ES,GS

KR-X1000/(G)

SPECIFICATIONS

for the U.S.A.and Canada

AUDIO section

Rated power output at the STEREO operation

125 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.08 % total harmonic distortions. (FTC)

Power output at the Surround operation

Front

130 watts per channel minimum RMS. both channels driven, at 6 Ω 1 kHz with no more than 0.08 % total harmonic distortions. (FTC)

Center

130 watts per channel minimum RMS, both channels driven, at 6 Ω 1 kHz with no more than 0.08 % total harmonic distortions. (FTC)

Rear

80 watts per channel minimum RMS, both channels driven, at 6 Ω1 kHz with no more than 0.08 % total harmonic distortions. (FTC)

Rated output voltage (PRE OUT) ..... 940 mV
(20 Hz ~ 20 kHz, 0.01 %)
Total harmonic distortion..... 0.006 % (1 kHz, 62.5 W, 6 Ω)
Frequency response
LINE (CD, AUX, TAPE)..... 5 Hz~100 kHz, + 0dB, - 3 dB
Signal to noise ratio (IHF A)
PHONO (MM) ..... 76 dB
LINE (CD, AUX, TAPE) ..... 96 dB
Input sensitivity / impedance
PHONO (MM)..... 2.5 mV / 47 kΩ
LINE (CD,AUX, TAPE)..... 200 mV / 47 kΩ
MAIN IN (FRONT, CENTER, SURROUND)
..... 940 mV / 16 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 330 Ω
PRE OUT (FRONT, CENTER, SURROUND,
SUBWOOFER)..... 940 mV / 500 Ω
Tone control
BASS ..... ± 8 dB (at 100 Hz)
TREBLE ..... ± 8 dB (at 10 kHz)

Common

VIDEO inputs / outputs

TELEVISION format..... NTSC
VIDEO (composite) .....1 Vp-p / 75 Ω
S-VIDEO (luminance signal).....1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~108 MHz
Usable sensitivity (IHF) .....13.2 dBf (l.2 µV at 75 Ω)
50 dB quieting sensitivity
STEREO ..... 41.2 dBf (32 µV at 75 Ω)
Total harmonic distortion at 1 kHz
MONO..... 0.6 %
STEREO ..... 0.7 %
Signal to noise ratio at 65 dBf (IHF)
MONO.....75 dB
STEREO.....68 dB
Selectivity (IHF ± 400 kHz).....50 dB
Stereo separation (IHF at 1 kHz).....40 dB
Frequency response ..... 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM tuner section

Tuning frequency range
9 kHz step .... 531 kHz ~ 1.602 kHz (For other countries)
10 kHz step ... 530 kHz ~ 1.610 kHz (For other countries)
530 kHz ~ 1.700 kHz (For the U.S.A. and Canada)
Usable sensitivity.....12 µV / (500 µV / m)
Total harmonic distortion .....0.7 %
Signal to noise ratio.....48 dB
Selectivity .....30 dB

GENERAL

Power consumption.....6.5 A
.....650 W
AC outlet
SWITCHED (For other countries).....1 (total 200 W max.)
SWITCHED (For the U.S.A. and Canada)
..... 2 (total 200 W, 1.6 A max.)
Dimensions (KR-XI000)..... W : 440 mm (17-5 / 16")
.....H : 169 mm (6-5 / 8")
.....D : 427 mm (16-13 / 16")
Dimensions (KR-X1000 (G).....W : 476 mm (18-3 / 4")
.....H : 169 mm (5-5 / 8")
.....D : 427 mm (16-13 / 16")
Weight (net) (KR-X1000) .....15.5 kg (36.4 lb)
Weight (net) (KR-X1000 (G)) .....18.0 kg (39,7 lb)

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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